| Participant ID | 123 |
|---|---|
| Participant Name | xyz |
| Test Center Name | iON Digital Zone Chikalthana |
| Test Date | 06/08/2022 |
| Test Time | 9:00 AM - 10:30 AM |
| Subject | Cluster 1 |

Section : **English**

**Q.1** **Select the most appropriate ANTONYM of the given word.**
**Sparse**

**Ans** ✗ 1. Opaque

✔ 2. Dense

✗ 3. Calm

✗ 4. Stiff

Question Type : **MCQ**
Question ID : **3878684**
Option 1 ID : **38786816**
Option 2 ID : **38786814**
Option 3 ID : **38786813**
Option 4 ID : **38786815**
Status : **Answered**
Chosen Option : **2**

**Q.2** **Select the most appropriate option to fill in the blank.**
**Have you come _____ car or _____ foot?**

**Ans** ✗ 1. on, by

✔ 2. by, on

✗ 3. with, on

✗ 4. in, by

Question Type : **MCQ**
Question ID : **3878682**
Option 1 ID : **3878685**
Option 2 ID : **3878686**
Option 3 ID : **3878687**
Option 4 ID : **3878688**
Status : **Answered**
Chosen Option : **4**

**Q.3** Select the most appropriate option to fill in the blank.
As he got into the bus, someone _____him.

**Ans** ✗ 1. pushes

✗ 2. had pushed

✓ 3. pushed

✗ 4. was pushing

Question Type : **MCQ**
Question ID : **3878683**
Option 1 ID : **3878689**
Option 2 ID : **38786812**
Option 3 ID : **38786811**
Option 4 ID : **38786810**
Status : **Answered**
Chosen Option : **3**

**Q.4** Select the most appropriate synonym of the given word.
Banter

**Ans** ✓ 1. Gossip

✗ 2. Praise

✗ 3. Loyalty

✗ 4. Flattery

Question Type : **MCQ**
Question ID : **3878685**
Option 1 ID : **38786820**
Option 2 ID : **38786818**
Option 3 ID : **38786817**
Option 4 ID : **38786819**
Status : **Answered**
Chosen Option : **2**

**Q.5** Select the most appropriate option to fill in the blank.
He ate _____much and became ill.

**Ans** ✗ 1. rather

✓ 2. too

✗ 3. quite

✗ 4. very

Question Type : **MCQ**
Question ID : **3878681**
Option 1 ID : **3878684**
Option 2 ID : **3878682**
Option 3 ID : **3878683**
Option 4 ID : **3878681**
Status : **Answered**
Chosen Option : **2**

**Q.6** Select the most appropriate meaning of the given idiom.
**Cock-and-bull story**

**Ans**  ✔ 1. Absurd tale

✘ 2. A folk tale

✘ 3. A true story

✘ 4. An old fable

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **3878686** |
| Option 1 ID : | **38786821** |
| Option 2 ID : | **38786823** |
| Option 3 ID : | **38786824** |
| Option 4 ID : | **38786822** |
| Status : | **Answered** |
| Chosen Option : | **2** |

**Q.7** Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. These nomads live in tents that can be put up or taken down very easily.
B. They eat ripe, sweet figs and dates and preserve them as food all year round.
C. The Arabs who live in the deserts are nomads.
D. They move from one oasis to another in search of water, shade, fig and palm trees.

**Ans**  ✔ 1. CADB

✘ 2. ABCD

✘ 3. DBCA

✘ 4. BDCA

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **3878687** |
| Option 1 ID : | **38786826** |
| Option 2 ID : | **38786828** |
| Option 3 ID : | **38786825** |
| Option 4 ID : | **38786827** |
| Status : | **Answered** |
| Chosen Option : | **1** |

**Comprehension:**

Read the given passage and answer the questions that follow.

Numerous studies have been undertaken which show that gardening offers many health related benefits. The most obvious benefit of gardening is that it can be a great way to alleviate stress. Work, family commitments and social engagements are just some of the things that take up chunks of peoples' lives. Planning the garden and then caring for the garden offers the gardener a simple and inexpensive way to unwind and relax. Gardening can help a person clear the mind.

Another health-related benefit of gardening is that when people tend to their gardens, they are getting exercise. Even an activity as simple as gardening can contribute towards weight loss. Gardening gets a person outdoors, exposed to natural air and refocused on a pleasant activity.

Gardening also offers nutritional benefits to those who choose to plant a vegetable garden. Creating a vegetable garden is a way of ensuring that there is a continuous supply of fresh vegetables to consume. Vegetable gardeners know exactly where their produce is coming from and they also know exactly what chemicals were used to grow the produce. Eating more vegetables, and especially home-grown vegetables, is a simple way to ensure that a body is getting a proper balance of vitamins and nutrients.

And finally, some studies even report that people who are exposed to gardens and gardening recover more quickly from illnesses. It seems that for many people, gardening is just what the doctor ordered.

**SubQuestion No : 8**

**Q.8  Select the most appropriate title for the passage.**

Ans   ✗ 1. How to Deal with Stress

✗ 2. How to Lose Weight

✔ 3. Benefits of Gardening

✗ 4. Organic Farming

**Comprehension:**

Read the given passage and answer the questions that follow.

Numerous studies have been undertaken which show that gardening offers many health related benefits. The most obvious benefit of gardening is that it can be a great way to alleviate stress. Work, family commitments and social engagements are just some of the things that take up chunks of peoples' lives. Planning the garden and then caring for the garden offers the gardener a simple and inexpensive way to unwind and relax. Gardening can help a person clear the mind.

Another health-related benefit of gardening is that when people tend to their gardens, they are getting exercise. Even an activity as simple as gardening can contribute towards weight loss. Gardening gets a person outdoors, exposed to natural air and refocused on a pleasant activity.

Gardening also offers nutritional benefits to those who choose to plant a vegetable garden. Creating a vegetable garden is a way of ensuring that there is a continuous supply of fresh vegetables to consume. Vegetable gardeners know exactly where their produce is coming from and they also know exactly what chemicals were used to grow the produce. Eating more vegetables, and especially home-grown vegetables, is a simple way to ensure that a body is getting a proper balance of vitamins and nutrients.

And finally, some studies even report that people who are exposed to gardens and gardening recover more quickly from illnesses. It seems that for many people, gardening is just what the doctor ordered.

**SubQuestion No : 9**

**Q.9  Gardening as an activity can be helpful for all of the following EXCEPT:**

Ans  ✘ 1. relaxation of the mind

✘ 2. working outdoors in natural air

✔ 3. meeting social commitments

✘ 4. a continuous supply of home grown vegetables

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **38786811** |
| Option 1 ID : | **38786837** |
| Option 2 ID : | **38786838** |
| Option 3 ID : | **38786840** |
| Option 4 ID : | **38786839** |
| Status : | **Answered** |
| Chosen Option : | **3** |

**Comprehension:**

Read the given passage and answer the questions that follow.

Numerous studies have been undertaken which show that gardening offers many health related benefits. The most obvious benefit of gardening is that it can be a great way to alleviate stress. Work, family commitments and social engagements are just some of the things that take up chunks of peoples' lives. Planning the garden and then caring for the garden offers the gardener a simple and inexpensive way to unwind and relax. Gardening can help a person clear the mind.

Another health-related benefit of gardening is that when people tend to their gardens, they are getting exercise. Even an activity as simple as gardening can contribute towards weight loss. Gardening gets a person outdoors, exposed to natural air and refocused on a pleasant activity.

Gardening also offers nutritional benefits to those who choose to plant a vegetable garden. Creating a vegetable garden is a way of ensuring that there is a continuous supply of fresh vegetables to consume. Vegetable gardeners know exactly where their produce is coming from and they also know exactly what chemicals were used to grow the produce. Eating more vegetables, and especially home-grown vegetables, is a simple way to ensure that a body is getting a proper balance of vitamins and nutrients.

And finally, some studies even report that people who are exposed to gardens and gardening recover more quickly from illnesses. It seems that for many people, gardening is just what the doctor ordered.

**SubQuestion No : 10**

Q.10  Select the most appropriate synonym of the given word.

**Alleviate**

Ans ✅ 1. Relieve

❌ 2. Expose

❌ 3. Contribute

❌ 4. Consume

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **3878689** |
| Option 1 ID : | **38786830** |
| Option 2 ID : | **38786831** |
| Option 3 ID : | **38786829** |
| Option 4 ID : | **38786832** |
| Status : | **Answered** |
| Chosen Option : | **3** |

Section : **Marathi**

Q.11  पुढीलपैकी कोणता शब्द 'ढग' या शब्दाचा समानार्थी नाही?

Ans ❌ 1. मेघ

✅ 2. जहर

❌ 3. घन

❌ 4. जलद

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **38786816** |
| Option 1 ID : | **38786858** |
| Option 2 ID : | **38786860** |
| Option 3 ID : | **38786857** |
| Option 4 ID : | **38786859** |
| Status : | **Answered** |
| Chosen Option : | **4** |

**Q.12** ' मी फुले तोडत असतो. ' या वाक्यातील काळ कोणता आहे?

Ans ❌ 1. रीति भविष्यकाळ

✅ 2. रीति वर्तमानकाळ

❌ 3. साधा वर्तमानकाळ

❌ 4. अपूर्ण भूतकाळ

Question Type : **MCQ**
Question ID : **38786814**
Option 1 ID : **38786849**
Option 2 ID : **38786852**
Option 3 ID : **38786851**
Option 4 ID : **38786850**
Status : **Answered**
Chosen Option : **1**

**Q.13** पुढील पैकी योग्य विरुद्धार्थी जोडी शोधा.

Ans ✅ 1. शत्रू--मित्र

❌ 2. प्रेम--प्रीती

❌ 3. खूण--चिन्ह

❌ 4. खग--पक्षी

Question Type : **MCQ**
Question ID : **38786815**
Option 1 ID : **38786853**
Option 2 ID : **38786854**
Option 3 ID : **38786855**
Option 4 ID : **38786856**
Status : **Answered**
Chosen Option : **1**

**Q.14** हमरीतुमरीवर येणे या वाक्प्रचाराचा योग्य अर्थ शोधा.

Ans ✅ 1. जोराने भांडणे

❌ 2. प्रारंभ करणे

❌ 3. पळून जाणे

❌ 4. फजिती होणे

Question Type : **MCQ**
Question ID : **38786817**
Option 1 ID : **38786862**
Option 2 ID : **38786861**
Option 3 ID : **38786864**
Option 4 ID : **38786863**
Status : **Answered**
Chosen Option : **1**

**Q.15** झाडाची ( हिरवी ) पाने उन्हात चमकत होती. कंसातील शब्दाचा प्रकार ओळखा.

Ans
✗ 1. क्रियापद

✗ 2. अव्यय

✓ 3. विशेषण

✗ 4. सर्वनाम

Question Type : **MCQ**
Question ID : **38786812**
Option 1 ID : **38786843**
Option 2 ID : **38786844**
Option 3 ID : **38786841**
Option 4 ID : **38786842**
Status : **Answered**
Chosen Option : **3**

**Q.16** पुढीलपैकी अचूक वाक्य रचना कोणती आहे?

Ans
✗ 1. व्यवस्थितपणे आपले त्रासदायक विचार सातत्याने कागदावर उतरवणे मला वाटत आले आहे.

✗ 2. त्रासदायक व्यवस्थितपणे आपले विचार मला कागदावर उतरवणे सातत्याने वाटत आले आहे.

✗ 3. मला सातत्याने व्यवस्थितपणे वाटत आले आहे आपले त्रासदायक विचार कागदावर उतरवणे.

✓ 4. आपले विचार व्यवस्थितपणे कागदावर उतरवणे मला सातत्याने त्रासदायक वाटत आले आहे.

Question Type : **MCQ**
Question ID : **38786818**
Option 1 ID : **38786865**
Option 2 ID : **38786866**
Option 3 ID : **38786868**
Option 4 ID : **38786867**
Status : **Answered**
Chosen Option : **4**

**Q.17** तुझे पुस्तक टेबलाखाली पडले आहे. या वाक्यातील अव्यय ओळखा.

Ans
✓ 1. खाली

✗ 2. पडले

✗ 3. पुस्तक

✗ 4. आहे

Question Type : **MCQ**
Question ID : **38786813**
Option 1 ID : **38786847**
Option 2 ID : **38786845**
Option 3 ID : **38786846**
Option 4 ID : **38786848**
Status : **Answered**
Chosen Option : **1**

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या.

सह्याद्री पर्वतरांगांतील सर्वात उंच शिखर म्हणजे 'कळसूबाई' होय. महाराष्ट्रातील तमाम आदिवासी महादेव कोळी समाजाचे हे दैवत आहे. अकोले तालुक्यात बारी या नावाचे गाव आहे. या गावाच्या थोडेसे पुढे जहागिरदारवाडी आहे. तेथून कळसूबाईच्या डोंगरावर चढणीला सुरुवात होते. अतिशय दुर्गम अशी ही चढण असून ती भल्याभल्यांची दमछाक करणारी आहे. परंतु त्याबरोबरच विविध सृष्टीसौंदर्याची उधळण करणारे तेथील वातावरण आहे. महाराष्ट्रातून अनेक पर्यटक कळसूबाई डोंगरावर चढणीस येत असतात. नवरात्रात तेथे खूप मोठा उत्सव साजरा होतो. नवसाला पावणारी देवी म्हणून कळसूबाई प्रसिद्ध आहे. जात्यावर ओव्या गाताना कळसूबाईचा उल्लेख झाला नाही तर ते दळण पूर्ण झाले असे खेड्यातील बायका समजत नाहीत. तिच्या संदर्भात खूप लोककथा प्रचलित आहेत. त्यात सात पोरक्या भावंडांची कथा सांगितली जाते. ही सारी भावंडे रानोमाळ फिरत असताना प्रत्येकजण एकेका जागी वस्ती करून राहत असे. थोरल्या वाघ्याला पठारावरील जागा आवडली.त्यात यांपैकी सर्वात लहान कळसूला एका शेतकरी जोडप्याने आंबवडीच्या रानात फिरताना पाहिले आणि तिचा स्वतःच्या मुलीप्रमाणे सांभाळले,कारण त्यांना स्वतःचे पोरबाळ नव्हते. कळसूवर त्यांनी खूप माया केली. तिला लहानाची मोठी केली.

**SubQuestion No : 18**

**Q.18** ' खूप कठीण ' अशा अर्थाचा उताऱ्यातील शब्द शोधा.

Ans   ✗ 1. तमाम

     ✗ 2. चढाई

     ✗ 3. दमछाक

     ✔ 4. दुर्गम

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **38786822** |
| Option 1 ID : | **38786877** |
| Option 2 ID : | **38786878** |
| Option 3 ID : | **38786879** |
| Option 4 ID : | **38786880** |
| Status : | **Answered** |
| Chosen Option : | **4** |

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या.

सह्याद्री पर्वतरांगांतील सर्वात उंच शिखर म्हणजे 'कळसूबाई' होय. महाराष्ट्रातील तमाम आदिवासी महादेव कोळी समाजाचे हे दैवत आहे. अकोले तालुक्यात बारी या नावाचे गाव आहे. या गावाच्या थोडेसे पुढे जहागिरदारवाडी आहे. तेथून कळसूबाईच्या डोंगरावर चढणीला सुरुवात होते. अतिशय दुर्गम अशी ही चढण असून ती भल्याभल्यांची दमछाक करणारी आहे. परंतु त्याबरोबरच विविध सृष्टीसौंदर्याची उधळण करणारे तेथील वातावरण आहे. महाराष्ट्रातून अनेक पर्यटक कळसूबाई डोंगरावर चढणीस येत असतात. नवरात्रात तेथे खूप मोठा उत्सव साजरा होतो. नवसाला पावणारी देवी म्हणून कळसूबाई प्रसिद्ध आहे. जात्यावर ओव्या गाताना कळसूबाईचा उल्लेख झाला नाही तर ते दळण पूर्ण झाले असे खेड्यातील बायका समजत नाहीत. तिच्या संदर्भात खूप लोककथा प्रचलित आहेत. त्यात सात पोरक्या भावंडांची कथा सांगितली जाते. ही सारी भावंडे रानोमाळ फिरत असताना प्रत्येकजण एकेका जागी वस्ती करून राहत असे. थोरल्या वाघ्याला पठारावरील जागा आवडली.त्यात यांपैकी सर्वात लहान कळसूला एका शेतकरी जोडप्याने आंबवडीच्या रानात फिरताना पाहिले आणि तिचा स्वतःच्या मुलीप्रमाणे सांभाळले,कारण त्यांना स्वतःचे पोरबाळ नव्हते. कळसूवर त्यांनी खूप माया केली. तिला लहानाची मोठी केली.

**SubQuestion No : 19**

**Q.19 कळसूबाई हे कोणत्या समाजाचे दैवत आहे?**

Ans  ✘ 1. शेतकरी

  ✔ 2. महादेव कोळी

  ✘ 3. वैदू

  ✘ 4. पर्यटक

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **38786820** |
| Option 1 ID : | **38786871** |
| Option 2 ID : | **38786870** |
| Option 3 ID : | **38786872** |
| Option 4 ID : | **38786869** |
| Status : | **Answered** |
| Chosen Option : | **2** |

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या.

सह्याद्री पर्वतरांगांतील सर्वात उंच शिखर म्हणजे 'कळसूबाई' होय. महाराष्ट्रातील तमाम आदिवासी महादेव कोळी समाजाचे हे दैवत आहे. अकोले तालुक्यात बारी या नावाचे गाव आहे. या गावाच्या थोडेसे पुढे जहागिरदारवाडी आहे. तेथून कळसूबाईच्या डोंगरावर चढणीला सुरुवात होते. अतिशय दुर्गम अशी ही चढण असून ती भल्याभल्यांची दमछाक करणारी आहे. परंतु त्याबरोबरच विविध सृष्टीसौंदर्याची उधळण करणारे तेथील वातावरण आहे. महाराष्ट्रातून अनेक पर्यटक कळसूबाई डोंगरावर चढणीस येत असतात. नवरात्रात तेथे खूप मोठा उत्सव साजरा होतो. नवसाला पावणारी देवी म्हणून कळसूबाई प्रसिद्ध आहे. जात्यावर ओव्या गाताना कळसूबाईचा उल्लेख झाला नाही तर ते दळण पूर्ण झाले असे खेड्यातील बायका समजत नाहीत. तिच्या संदर्भात खूप लोककथा प्रचलित आहेत. त्यात सात पोरक्या भावंडांची कथा सांगितली जाते. ही सारी भावंडे रानोमाळ फिरत असताना प्रत्येकजण एकेका जागी वस्ती करून राहत असे. थोरल्या वाघ्याला पठारावरील जागा आवडली.त्यात यांपैकी सर्वात लहान कळसूला एका शेतकरी जोडप्याने आंबवडीच्या रानात फिरताना पाहिले आणि तिचा स्वतःच्या मुलीप्रमाणे सांभाळले,कारण त्यांना स्वतःचे पोरबाळ नव्हते. कळसूवर त्यांनी खूप माया केली. तिला लहानाची मोठी केली.

**SubQuestion No : 20**

**Q.20 कळसूबाईच्या डोंगरावरील चढणीला सुरुवात कुठून होते?**

Ans    ✔️ 1. जहागिरदारवाडी

   ❌ 2. अकोले

   ❌ 3. बारी

   ❌ 4. आंबवडी

<table>
<tr><td>Question Type : **MCQ**</td></tr>
<tr><td>Question ID : **38786821**</td></tr>
<tr><td>Option 1 ID : **38786876**</td></tr>
<tr><td>Option 2 ID : **38786873**</td></tr>
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<tr><td>Option 4 ID : **38786875**</td></tr>
<tr><td>Status : **Answered**</td></tr>
<tr><td>Chosen Option : **1**</td></tr>
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Section : **General Knowledge**

**Q.21 गृहनिर्माण आणि नगरविकास मंत्रालयाकडून 1 जून 2020 ला सुरू करण्यात आलेल्या पीएम स्वनिधी (PM SVANidhi) योजनेत विक्रेत्यांना मिळू शकणाऱ्या खेळत्या भांडवली कर्जाची कमाल मर्यादा किती आहे?**

Ans    ❌ 1. ₹5,000

   ❌ 2. ₹1,00,000

   ❌ 3. ₹50,000

   ✔️ 4. ₹10,000

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<tr><td>Question Type : **MCQ**</td></tr>
<tr><td>Question ID : **38786826**</td></tr>
<tr><td>Option 1 ID : **38786893**</td></tr>
<tr><td>Option 2 ID : **38786896**</td></tr>
<tr><td>Option 3 ID : **38786895**</td></tr>
<tr><td>Option 4 ID : **38786894**</td></tr>
<tr><td>Status : **Answered**</td></tr>
<tr><td>Chosen Option : **2**</td></tr>
</table>

**Q.22** Which of the following river does NOT have its origin in Maharashtra?

Ans ✗ 1. Purna

✓ 2. Banas

✗ 3. Godavari

✗ 4. Penganga

Question Type : **MCQ**

Question ID : **38786830**

Option 1 ID : **387868110**

Option 2 ID : **387868112**

Option 3 ID : **387868111**

Option 4 ID : **387868109**

Status : **Answered**

Chosen Option : **4**

**Q.23** What is the rural and urban literacy rate of Maharashtra according to Census 2011?

Ans ✗ 1. 72.36% and 88.69%, respectively

✓ 2. 77.01% and 88.69%, respectively

✗ 3. 72.36% and 84.65%, respectively

✗ 4. 77.01% and 84.65%, respectively

Question Type : **MCQ**

Question ID : **38786832**

Option 1 ID : **387868118**

Option 2 ID : **387868119**

Option 3 ID : **387868117**

Option 4 ID : **387868120**

Status : **Answered**

Chosen Option : **1**

**Q.24** खालीलपैकी कोणते अधिसूचित भौगोलिक वारसा असणारे, क्षारयुक्त, अल्कधर्मी पाणी असणारे सरोवर महाराष्ट्राच्या बुलढाणा जिल्ह्यात आहे?

Ans ✗ 1. पवई सरोवर

✗ 2. विहार सरोवर

✗ 3. रंकाळा सरोवर

✓ 4. लोणार सरोवर

Question Type : **MCQ**

Question ID : **38786831**

Option 1 ID : **387868113**

Option 2 ID : **387868114**

Option 3 ID : **387868116**

Option 4 ID : **387868115**

Status : **Answered**

Chosen Option : **4**

**Q.25** India's first and one of world's largest Green Hydrogen Micro-grid Project is to be set up at:

Ans ✗ 1. Talcher

✗ 2. Kalpakkam

✗ 3. Rawatbhata

✓ 4. Simhadri

Question Type : **MCQ**

Question ID : **38786824**

Option 1 ID : **38786888**

Option 2 ID : **38786887**

Option 3 ID : **38786886**

Option 4 ID : **38786885**

Status : **Answered**

Chosen Option : **2**

---

**Q.26** Who was the chief minister of Maharashtra when the national emergency was declared on the grounds of internal disturbance?

Ans ✗ 1. Sharad Pawar

✓ 2. Shankarrao Chavan

✗ 3. Vasantrao Naik

✗ 4. PK Sawant

Question Type : **MCQ**

Question ID : **38786829**

Option 1 ID : **387868108**

Option 2 ID : **387868107**

Option 3 ID : **387868106**

Option 4 ID : **387868105**

Status : **Answered**

Chosen Option : **2**

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**Q.27** खिजादिया वन्यजीव अभयारण्यास नुकतेच रॅमसर (Ramsar) ठिकाण (आंतरराष्ट्रीय महत्त्वाची पाणथळ ठिकाणे) म्हणून घोषित करण्यात आले. खिजादिया वन्यजीव अभयारण्य कुठे आहे?

Ans ✗ 1. उत्तर प्रदेश

✓ 2. गुजरात

✗ 3. ओडिशा

✗ 4. केरळ

Question Type : **MCQ**

Question ID : **38786825**

Option 1 ID : **38786889**

Option 2 ID : **38786892**

Option 3 ID : **38786890**

Option 4 ID : **38786891**

Status : **Answered**

Chosen Option : **4**

**Q.28** महामारीमुळे लावण्यात आलेल्या लॉकडाऊनमुळे देशाच्या आर्थिक वाढीला धक्का बसला आहे. कोविडोत्तर काळात, अर्थव्यवस्थेत पैशाच्या उपलब्धेत सुधारणा व्हावी, यासाठी मध्यवर्ती बँकेकडून खालीलपैकी कशाचा मुद्राविषयक धोरणात समावेश केला जाऊ शकतो?

Ans ✖ 1. रोख संचिती प्रमाणात वाढ

✖ 2. सांविधिक चलनिधि प्रमाणात वाढ

✔ 3. रोख संचिती प्रमाणात घट

✖ 4. व्यावसायिक बँकांना रोख्यांची विक्री

Question Type : **MCQ**
Question ID : **38786827**
Option 1 ID : **38786897**
Option 2 ID : **38786899**
Option 3 ID : **387868100**
Option 4 ID : **38786898**
Status : **Answered**
Chosen Option : **4**

---

**Q.29** Where was the harbour phase of the maiden edition of Indian Ocean Naval Symposium (IONS) Maritime Exercise, 2022 (IMEX-22) conducted from 26-27 March 2022?

Ans ✖ 1. Andhra Pradesh

✖ 2. Gujarat

✔ 3. Goa

✖ 4. Tamil Nadu

Question Type : **MCQ**
Question ID : **38786823**
Option 1 ID : **38786884**
Option 2 ID : **38786881**
Option 3 ID : **38786882**
Option 4 ID : **38786883**
Status : **Answered**
Chosen Option : **2**

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**Q.30** महाराष्ट्र लोकसेवा आयोगाबाबत खालीलपैकी काय अचूक नाही?

Ans ✔ 1. राज्यपालांची मर्जी आहे, तोपर्यंत अध्यक्ष पदावर राहू शकतो

✖ 2. त्यांच्या अध्यक्षांची नियुक्ती राज्याच्या राज्यपालांकडून केली जाते

✖ 3. हे भारतीय राज्यघटनेच्या अनुच्छेद 315 च्या अंतर्गत स्थापन करण्यात आले आहे.

✖ 4. हे एक संविधानिक मंडळ आहे

Question Type : **MCQ**
Question ID : **38786828**
Option 1 ID : **387868102**
Option 2 ID : **387868101**
Option 3 ID : **387868104**
Option 4 ID : **387868103**
Status : **Answered**
Chosen Option : **4**

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Section : **Logical Ability**

**Q.31** Select the term from among the given options that can replace the question mark (?) in the following series.
SBQ 3, UYU 7, WVY 11, YSC 15, APG 19, ?

Ans  ✗ 1. CLK 31

✗ 2. DLJ 31

✓ 3. CMK 23

✗ 4. DLK 21

Question Type : **MCQ**
Question ID : **38786837**
Option 1 ID : **387868137**
Option 2 ID : **387868140**
Option 3 ID : **387868139**
Option 4 ID : **387868138**
Status : **Answered**
Chosen Option : **3**

**Q.32** Refer to the given letter, number, symbol series and answer the following question.
(Left) H D # U & 5 E 3 $ 8 L % 1 S Z & 2 9 F * T ! (Right)
If all the numbers are dropped from the series and each letter is changed to the letter following it in the English alphabetical order, which of the following will be seventh from the right in the new series?

Ans  ✗ 1. $

✓ 2. T

✗ 3. %

✗ 4. M

Question Type : **MCQ**
Question ID : **38786838**
Option 1 ID : **387868141**
Option 2 ID : **387868142**
Option 3 ID : **387868143**
Option 4 ID : **387868144**
Status : **Answered**
Chosen Option : **3**

**Q.33** Seven graduate students, Alok, Charan, Eshan , Bihu, Divija, Fintoo and Guna, are sitting in a straight row, facing north. Only two students sit to the left of Eshan. Only three students sit between Eshan and Alok. Bihu sits second to the right of Charan. Bihu is not an immediate neighbour of Alok. Divija sits to the immediate right of Fintoo. Who sits at the extreme left end of the row?
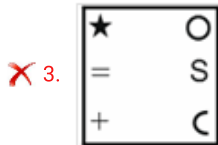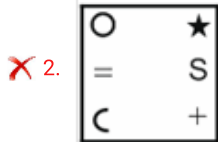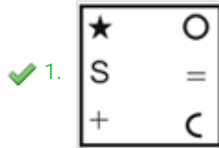
Ans  ✗ 1. Fintoo

✗ 2. Divija

✓ 3. Guna

✗ 4. Bihu

Question Type : **MCQ**
Question ID : **38786833**
Option 1 ID : **387868122**
Option 2 ID : **387868123**
Option 3 ID : **387868124**
Option 4 ID : **387868121**
Chosen Option : 2

**Q.34** Select the figure from among the given options that can replace the question mark (?) in the following series.

| = | S | S | = | | O | ★ | + | C | C | + |
|---|---|---|---|---|---|---|---|---|---|---|
| C | + | ★ | O | ? | + | C | O | ★ | = | S |
| ★ | O | C | + | | S | = | = | S | O | ★ |

**Ans**
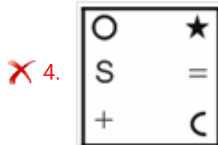
1. ✔

```
★      O
S      =
+      C
```

2. ✘

```
O      ★
=      S
C      +
```

3. ✘

```
★      O
=      S
+      C
```

4. ✘

```
O      ★
S      =
+      C
```

**Q.35** Six anchors, Pallavi, Vindya, Riya, Swethi, Divija and Tanmayi are attending an audition for a TV serial. They have different heights. Tanmayi is the second tallest person in the group. Swethi is taller than only Divija. Riya and Tanmayi both are taller than Vindya. Pallavi is taller than Swethi but shorter than Vindya.
Who among the following is taller than Tanmayi?

**Ans**

1. Riya ✔

2. ✘ Swethi

3. ✘ Vindya

4. ✘ Pallavi

**Q.36** दिलेल्या 4-अक्षरी शब्दांचा संदर्भ घ्या आणि पुढील प्रश्नाचे उत्तर द्या.
(डावी) STEP CASH BACK SHOT (उजवी)
जर दिलेल्यापैकी प्रत्येक शब्दातील प्रत्येक अक्षर हे इंग्रजी मुळाक्षर क्रमाने त्यानंतर येणाऱ्या अक्षराने बदलले तर
असे किती शब्द तयार होतील, त्यात एकही स्वर नसेल?

Ans  ✗ 1. दोन

   ✔ 2. एक

   ✗ 3. तीन

   ✗ 4. एकही नाही

Question Type : **MCQ**
Question ID : **38786839**
Option 1 ID : **387868147**
Option 2 ID : **387868146**
Option 3 ID : **387868148**
Option 4 ID : **387868145**
Status : **Answered**
Chosen Option : **4**

**Q.37** शरयू आणि रितिका या जुळ्या बहिणी आहेत. रोहन हा शरयूचा भाऊ आहे. अनामिका ही रोहनची पत्नी आहे.
मनविता ही रितिकाची आई आहे. आलोक हा शरयूचा पती आहे. अनामिकाचे मानविताच्या पतीशी काय नाते
आहे?

Ans  ✔ 1. सून

   ✗ 2. कझिन

   ✗ 3. कन्या

   ✗ 4. बहीण

Question Type : **MCQ**
Question ID : **38786841**
Option 1 ID : **387868155**
Option 2 ID : **387868156**
Option 3 ID : **387868153**
Option 4 ID : **387868154**
Status : **Answered**
Chosen Option : **3**

**Q.38** A lab in charge prepares the merit list of lab exams of all the 48 students of class XII.
Koushik gets 20th rank from the top. Half of the total of 26 girls gets a higher percentage
than Koushik. How many boys are there in the list above Koushik?

Ans  ✗ 1. 4

   ✗ 2. 7

   ✔ 3. 6

   ✗ 4. 5

Question Type : **MCQ**
Question ID : **38786834**
Option 1 ID : **387868125**
Option 2 ID : **387868128**
Option 3 ID : **387868127**
Option 4 ID : **387868126**
Status : **Answered**

**Q.39** In a certain code language, 'GROUP' is written as 'HSQXS' and 'PLACE' is written as 'QMCFH'. How will 'MONTH' be written in that language?

Ans
  ✗ 1. LQPJW

  ✗ 2. NNPVK

  ✓ 3. NPPWK

  ✗ 4. LPQWJ

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **38786840** |
| Option 1 ID : | **387868149** |
| Option 2 ID : | **387868150** |
| Option 3 ID : | **387868152** |
| Option 4 ID : | **387868151** |
| Status : | **Answered** |
| Chosen Option : | **1** |

**Q.40** दिलेली विधाने आणि निष्कर्ष काळजीपूर्वक वाचा. विधानांत दिलेली माहिती सर्वसामान्यपणे ज्ञात तथ्यांपेक्षा भिन्न वाटत असली तरी ती सत्य गृहीत धरा आणि दिलेल्यापैकी कोणता/कोणते निष्कर्ष दिलेल्या विधानाचे तार्किकदृष्ट्या अनुसरण करतो/करतात ते ठरवा.
विधाने:
थोडी पायपुसणी ब्लँकेट्स आहेत.
बहुतेक ब्लँकेट्स उशा आहेत.
सर्व उशा पायदाने आहेत.
निष्कर्ष:
(I) थोडी पायपुसणी उशा आहेत.
(II) काही पायदाने पायपुसणी आहेत.
(III) काही पायदाने ब्लँकेट्स आहेत.

Ans
  ✗ 1. फक्त निष्कर्ष I अनुसरण करतो

  ✗ 2. सर्व निष्कर्ष I, II आणि III अनुसरण करतात

  ✗ 3. फक्त निष्कर्ष II अनुसरण करतो

  ✓ 4. फक्त निष्कर्ष III अनुसरण करतो

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **38786835** |
| Option 1 ID : | **387868129** |
| Option 2 ID : | **387868132** |
| Option 3 ID : | **387868130** |
| Option 4 ID : | **387868131** |
| Status : | **Answered** |
| Chosen Option : | **2** |

Section : **Civil Engineering**

**Q.41** In brick work masonry, identify the bond shown in the following figure.
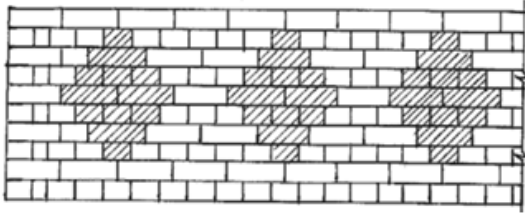


Ans   ✗ 1.   Stretcher bond

    ✔ 2.   English cross bond

    ✗ 3.   Rat-trap bond

    ✗ 4.   English garden bond

Question Type : **MCQ**
Question ID : **38786846**
Option 1 ID : **387868176**
Option 2 ID : **387868174**
Option 3 ID : **387868175**
Option 4 ID : **387868173**
Status : **Answered**
Chosen Option : **1**

**Q.42** A circular pipe having a radius of 100 mm is flowing full. What is the hydraulic mean radius?

Ans   ✗ 1.   25 mm

    ✗ 2.   35 mm

    ✔ 3.   50 mm

    ✗ 4.   45 mm

Question Type : **MCQ**
Question ID : **38786864**
Option 1 ID : **387868245**
Option 2 ID : **387868246**
Option 3 ID : **387868248**
Option 4 ID : **387868247**
Status : **Answered**
Chosen Option : **3**

**Q.43** A simple wheel and axle has wheel and axle of diameters of 300 mm and 30 mm, respectively. What is the efficiency of the machine, if it can lift a load of 900 N by an effort of 100 N?

Ans ✔ 1. 90%

✘ 2. 85%

✘ 3. 95%

✘ 4. 80%

Question Type : **MCQ**

Question ID : **387868102**

Option 1 ID : **387868399**

Option 2 ID : **387868398**

Option 3 ID : **387868400**

Option 4 ID : **387868397**

Status : **Answered**

Chosen Option : **1**

**Q.44** All the following tests are conducted to assess workability of fresh concrete, EXCEPT:

Ans ✘ 1. Kelly Ball test

✔ 2. Le Chatelier test

✘ 3. Slump test

✘ 4. Flow table test

Question Type : **MCQ**

Question ID : **38786856**

Option 1 ID : **387868215**

Option 2 ID : **387868216**

Option 3 ID : **387868214**

Option 4 ID : **387868213**

Status : **Answered**

Chosen Option : **1**

**Q.45** All of the following are the functions of construction management, EXCEPT:

Ans ✔ 1. sanctioning

✘ 2. planning

✘ 3. controlling

✘ 4. organising

Question Type : **MCQ**

Question ID : **38786874**

Option 1 ID : **387868288**

Option 2 ID : **387868285**

Option 3 ID : **387868287**

Option 4 ID : **387868286**

Status : **Answered**

Chosen Option : **1**

**Q.46** Which of the following is NOT an objective of preparing the estimate for any civil engineering structure?

Ans ✗ 1.
To obtain the administrative and technical sanction of estimate from the competent authorities to release the funds for construction.

✗ 2.
To invite tenders or quotations based on the estimate quantities for entrusting of works to the execution.

✓ 3.
To apply for promotion or to increase the income of salary in the organisation.

✗ 4.
To know the quantities of various items of work, material and labour and their source of identification.

Question Type : **MCQ**
Question ID : **38786892**
Option 1 ID : **387868357**
Option 2 ID : **387868358**
Option 3 ID : **387868360**
Option 4 ID : **387868359**
Status : **Answered**
Chosen Option : **3**

**Q.47** Which of the following is NOT considered to be a Site Layout Planning Element?

Ans ✗ 1. Site Accessibility

✗ 2. Safety

✗ 3. Security

✓ 4. Finance

Question Type : **MCQ**
Question ID : **38786876**
Option 1 ID : **387868294**
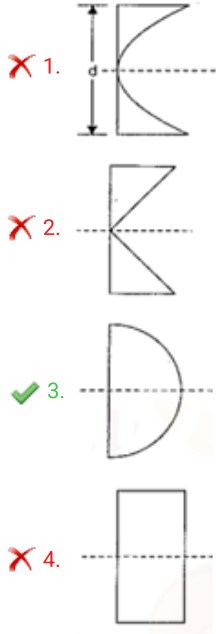Option 2 ID : **387868293**
Option 3 ID : **387868296**
Option 4 ID : **387868295**
Status : **Answered**
Chosen Option : **4**

**Q.48** Which of the following figures represents the shear stress distribution of a rectangular beam cross-section subjected to transverse loading?

Ans

✗ 1.

✗ 2.

✔ 3.

✗ 4.

**Q.49** All of the following are principles of International Environmental Law, EXCEPT:

Ans

✔ 1. pollution principle of discrimination

✗ 2. precautionary principle

✗ 3. principle of common differentiated responsibilities

✗ 4. polluter pays principle

**Q.50** The bearing capacity which is equal to gross pressure minus overburden pressure is called:

**Ans**
✗ 1. gross safe bearing capacity

✗ 2. net allowable bearing capacity

✗ 3. net safe bearing capacity

✔ 4. net ultimate bearing capacity

Question Type : **MCQ**
Question ID : **38786862**
Option 1 ID : **387868239**
Option 2 ID : **387868237**
Option 3 ID : **387868240**
Option 4 ID : **387868238**
Status : **Answered**
Chosen Option : **1**

**Q.51** Cavitation occurs in centrifugal pump, if:

**Ans**
✗ 1.
the pressure at the inlet of the pump is equal to the atmospheric pressure

✗ 2. it operates above the minimum net positive suction head

✔ 3. it operates below the minimum net positive suction head

✗ 4.
the pressure at the inlet of the pump is above the atmospheric pressure

Question Type : **MCQ**
Question ID : **38786868**
Option 1 ID : **387868264**
Option 2 ID : **387868261**
Option 3 ID : **387868262**
Option 4 ID : **387868263**
Status : **Answered**
Chosen Option : **3**

**Q.52** To assess the reaction time of the driver, PIEV theory is used. What does 'I' indicate in this theory?

**Ans**
✗ 1. Intelligence

✔ 2. Intellection

✗ 3. Intellectual

✗ 4. Inception

Question Type : **MCQ**
Question ID : **38786879**
Option 1 ID : **387868307**
Option 2 ID : **387868308**
Option 3 ID : **387868306**
Option 4 ID : **387868305**
Status : **Answered**

**Q.53** The spacing of longitudinal bars measured along the periphery of the column shall NOT exceed _____.

**Ans**  ✗ 1. 200 mm

✗ 2. 400 mm

✔ 3. 300 mm

✗ 4. 350 mm

Question Type : **MCQ**

Question ID : **38786884**

Option 1 ID : **387868325**

Option 2 ID : **387868328**

Option 3 ID : **387868326**

Option 4 ID : **387868327**

Status : **Answered**

Chosen Option : **3**

**Q.54** A temporary line known as the _____ is laid by the side of the proposed railway track for taking track materials to the site.

**Ans**  ✗ 1. ballast line

✔ 2. tram line

✗ 3. permanent way

✗ 4. track line

Question Type : **MCQ**

Question ID : **38786880**

Option 1 ID : **387868311**

Option 2 ID : **387868312**

Option 3 ID : **387868309**

Option 4 ID : **387868310**

Status : **Answered**

Chosen Option : **2**

**Q.55** Find the steepest gradient on a 2° curve for a BG line with a ruling gradient of 1 in 200.

**Ans**  ✗ 1. 0.48 %

✔ 2. 0.42%

✗ 3. 0.40%

✗ 4. 0.46%

Question Type : **MCQ**

Question ID : **38786881**

Option 1 ID : **387868316**

Option 2 ID : **387868314**

Option 3 ID : **387868313**

Option 4 ID : **387868315**

Status : **Answered**

Chosen Option : **2**

**Q.56** Which of the following is the advantage of item rate contract?

Ans ✗ 1.
It becomes very difficult to adjust the additions and alterations in the plan and the specifications at a later stage.

✔ 2.
The additions and alterations in the plan and specifications can be easily made at any stage.

✗ 3.
The total cost of the work can only be computed after completion of the entire project.

✗ 4.
It causes conflicting interests as the owner tries to get the maximum work out of the money he spends, whereas the contractor tries to get the maximum profit.

Question Type : **MCQ**
Question ID : **38786877**
Option 1 ID : **387868298**
Option 2 ID : **387868300**
Option 3 ID : **387868297**
Option 4 ID : **387868299**
Status : **Answered**
Chosen Option : **2**

**Q.57** Which of the following assumptions is NOT made in the analysis of a simple truss?

Ans ✗ 1. The truss is loaded and supported only at its joints.

✔ 2. Self-weight of the truss members are considered.

✗ 3. The forces in the members of the truss are purely axial.

✗ 4.
The members of the truss are connected at their ends by frictionless pins or hinges.

Question Type : **MCQ**
Question ID : **38786872**
Option 1 ID : **387868278**
Option 2 ID : **387868280**
Option 3 ID : **387868279**
Option 4 ID : **387868277**
Status : **Answered**
Chosen Option : **4**

**Q.58** Select the characteristics of Gunter's chain from the following.

Ans ✗ 1.
The chains are 100 feet long and consist of 100 links, each link being 1 foot long.

✗ 2.
The chains are 33 feet long and consist of 16 links, each link being $2\frac{1}{16}$ feet long.

✗ 3.
The chain is 30 metres long and available in lengths of 5, 10 and 20 metres.

✔ 4.
The chain is 66 feet long and consists of 100 links, each link being 0.6 feet long.

Question Type : **MCQ**
Question ID : **38786847**
Option 1 ID : **387868179**
Option 2 ID : **387868177**
Option 3 ID : **387868178**
Option 4 ID : **387868180**
Status : **Answered**
Chosen Option : **2**

**Q.59** Coefficient of friction (*f*) in a pipe for a fluid with Reynolds number (*Re*) less than 2000 is:

Ans

✗ 1. $f = \dfrac{0.05525}{Re^{0.237}} + 0.0008$

✗ 2. $f = \dfrac{10}{Re}$

✔ 3. $f = \dfrac{16}{Re}$

✗ 4. $f = \dfrac{0.0791}{Re^{1/4}}$

Question Type : **MCQ**
Question ID : **38786866**
Option 1 ID : **387868256**
Option 2 ID : **387868253**
Option 3 ID : **387868254**
Option 4 ID : **387868255**
Status : **Answered**
Chosen Option : **3**

**Q.60** What is the rule for reduced bearing (*RB*) to convert whole circle bearing (*WCB*) between 90° and 180°?

**Ans**

✗ 1. $RB = WCB$

✓ 2. $RB = 180^o - WCB$

✗ 3. $RB = 360^0 - WCB$

✗ 4. $RB = WCB - 180^o$

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **38786848** |
| Option 1 ID : | **387868181** |
| Option 2 ID : | **387868182** |
| Option 3 ID : | **387868184** |
| Option 4 ID : | **387868183** |
| Status : | **Answered** |
| Chosen Option : | **2** |

**Q.61** What is the limitation of Lami's theorem?

**Ans**

✓ 1. Applicable to three concurrent forces

✗ 2. Applicable to four concurrent forces

✗ 3. Applicable to collinear concurrent forces

✗ 4. Applicable to two concurrent forces

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **38786899** |
| Option 1 ID : | **387868386** |
| Option 2 ID : | **387868387** |
| Option 3 ID : | **387868388** |
| Option 4 ID : | **387868385** |
| Status : | **Answered** |
| Chosen Option : | **1** |

**Q.62** Two tangents intersect at a chain age of 1400 m, deflection being 18°. What is the length of the curve required for setting out a curve of radius 250 m?

**Ans**

✗ 1. 12.5 π m

✓ 2. 25 π m

✗ 3. 50 π m

✗ 4. 6.25 π m

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **38786850** |
| Option 1 ID : | **387868190** |
| Option 2 ID : | **387868191** |
| Option 3 ID : | **387868192** |
| Option 4 ID : | **387868189** |
| Status : | **Answered** |
| Chosen Option : | **3** |

**Q.63** The angle that a survey line makes with the prolongation of the proceeding line is called:

Ans   ✗ 1.   direct angle

     ✗ 2.   tangential angle

     ✗ 3.   vertical angle

     ✔ 4.   deflection angle

Question Type : **MCQ**
Question ID : **38786849**
Option 1 ID : **387868185**
Option 2 ID : **387868188**
Option 3 ID : **387868187**
Option 4 ID : **387868186**
Status : **Answered**
Chosen Option : **2**

**Q.64** In road construction, the subgrade given a cross slope of 1 in 36 to facilitate subgrade drainage was introduced by:

Ans   ✗ 1.   Metcalf

     ✗ 2.   Trésaguet

     ✗ 3.   Telford

     ✔ 4.   John Macadam

Question Type : **MCQ**
Question ID : **38786878**
Option 1 ID : **387868301**
Option 2 ID : **387868302**
Option 3 ID : **387868303**
Option 4 ID : **387868304**
Status : **Answered**
Chosen Option : **1**

**Q.65** Which of the following statements is NOT correct with respect to friction?

Ans   ✔ 1.
The ratio of normal reaction to limiting friction is called the coefficient of friction.

     ✗ 2.
The force of friction does not depend on the area of contact.

     ✗ 3.
The magnitude of limiting friction bears a constant ratio to the normal reaction between the two surfaces.

     ✗ 4.   The static friction is slightly less than the limiting friction.

Question Type : **MCQ**
Question ID : **387868100**
Option 1 ID : **387868392**
Option 2 ID : **387868389**
Option 3 ID : **387868390**
Option 4 ID : **387868391**
Status : **Answered**

**Q.66** Which of the following is a characteristic of the Wet Mix Macadam method?

Ans ✗ 1. Materials used are the stone aggregates, screenings and binder material.

✓ 2. Quantity is generally measured in square metres.

✗ 3. Quantity is generally measured in running metres.

✗ 4. The materials are laid one after another in layers.

Question Type : **MCQ**
Question ID : **38786882**
Option 1 ID : **387868317**
Option 2 ID : **387868320**
Option 3 ID : **387868319**
Option 4 ID : **387868318**
Status : **Answered**
Chosen Option : **1**

**Q.67** Effective length of prismatic compression steel member having un unsupported length L restrained at one end and free at the other end against both translation and rotation is:

Ans ✗ 1. 1.2 L

✓ 2. 2.0 L

✗ 3. 0.8 L

✗ 4. 1.0 L

Question Type : **MCQ**
Question ID : **38786887**
Option 1 ID : **387868339**
Option 2 ID : **387868340**
Option 3 ID : **387868337**
Option 4 ID : **387868338**
Status : **Answered**
Chosen Option : **1**

**Q.68** The fixed end moments of the beam shown in the following figure is:
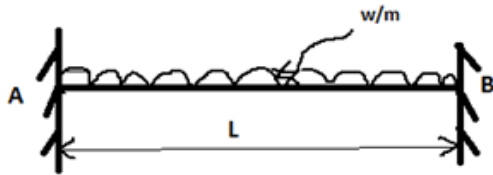


**Ans**

✅ 1. $\dfrac{wL^2}{12}$

❌ 2. $\dfrac{wL^2}{4}$

❌ 3. $\dfrac{wL^2}{8}$

❌ 4. $\dfrac{wL^2}{6}$

Question Type : **MCQ**
Question ID : **38786871**
Option 1 ID : **387868276**
Option 2 ID : **387868273**
Option 3 ID : **387868275**
Option 4 ID : **387868274**
Status : **Answered**
Chosen Option : **2**

**Q.69** Which of the following options is an indicator of under reinforced concrete section for a singly reinforced RCC beam with sagging moment?

**Ans** ❌ 1.
The actual neutral axis will fall below the critical neutral axis.

❌ 2.
The tensile reinforcement is provided above the compression zone from the neutral axis.

❌ 3.
The actual neutral axis will coincide with the critical neutral axis.

✅ 4.
The actual neutral axis will fall above the critical neutral axis.

Question Type : **MCQ**
Question ID : **38786885**
Option 1 ID : **387868331**
Option 2 ID : **387868329**
Option 3 ID : **387868330**
Option 4 ID : **387868332**
Status : **Answered**
Chosen Option : **4**

**Q.70** Which of the following is NOT a limitation of bar chart used in construction management?

**Ans**
✗ 1.
It is not possible to know the peak rate of work necessary for timely completion of a project.

✗ 2.
it is difficult to depict complicated interdependencies of various items of work.

✔ 3. It is a widely used method of scheduling.

✗ 4. It does not give actual progress of the work.

> Question Type : **MCQ**
> Question ID : **38786875**
> Option 1 ID : **387868292**
> Option 2 ID : **387868290**
> Option 3 ID : **387868289**
> Option 4 ID : **387868291**
> Status : **Answered**
> Chosen Option : **3**

**Q.71** Vane shear test is used to find the _____.

**Ans**
✗ 1. safe bearing capacity of soil in the field

✔ 2. shear strength of soil in the field

✗ 3. compressive strength of soil in the field

✗ 4. plasticity of soil in the laboratory

> Question Type : **MCQ**
> Question ID : **38786861**
> Option 1 ID : **387868234**
> Option 2 ID : **387868236**
> Option 3 ID : **387868235**
> Option 4 ID : **387868233**
> Status : **Answered**
> Chosen Option : **2**

**Q.72** A rectangular channel section has a width of $b$ in which depth of flow $y$ is flowing. Which of the following conditions should be satisfied for maximum discharge through this rectangular channel section?

**Ans**
✗ 1. $b = 2y$ and hydraulic radius $R = y/3$

✔ 2. $b = 2y$ and hydraulic radius $R = y/2$

✗ 3. $b = y$ and hydraulic radius $R = y/4$

✗ 4. $b = y$ and hydraulic radius $R = 2y$

> Question Type : **MCQ**
> Question ID : **38786867**
> Option 1 ID : **387868259**
> Option 2 ID : **387868258**
> Option 3 ID : **387868260**
> Option 4 ID : **387868257**

**Q.73** Which type of beam is provided to reduce the differential settlements of foundations?

Ans

✗ 1. Strap beam

✗ 2. Wall beam

✗ 3. Grade beam

✔ 4. Plinth beam

Question Type : **MCQ**
Question ID : **38786845**
Option 1 ID : **387868169**
Option 2 ID : **387868172**
Option 3 ID : **387868170**
Option 4 ID : **387868171**
Status : **Answered**
Chosen Option : **1**

**Q.74** The following rules are used in the analysis of direct and bending stresses in vertical members:

1. Middle third rule for a rectangular section

2. Middle quarter rule for circular sections

Select the correct option.

Ans

✔ 1. Both are correct.

✗ 2. 1 is incorrect and 2 is correct.

✗ 3. 1 is correct and 2 is incorrect.

✗ 4. Both are incorrect.

Question Type : **MCQ**
Question ID : **38786869**
Option 1 ID : **387868268**
Option 2 ID : **387868266**
Option 3 ID : **387868265**
Option 4 ID : **387868267**
Status : **Answered**
Chosen Option : **1**

**Q.75** Which of the following is NOT a characteristic of lightweight concrete?

Ans

✗ 1. It helps in reduction of dead load.

✗ 2. It increases the progress of building construction.

✗ 3. It lowers haulage and handling costs.

✔ 4. It has relatively high thermal conductivity.

Question Type : **MCQ**
Question ID : **38786859**
Option 1 ID : **387868227**
Option 2 ID : **387868225**
: **387868226**
: **387868228**
Status : **Answered**

**Q.76** World Health Organization (WHO) recommends maintaining environmental noises below _____ over 24-hours to prevent noise-induced hearing loss.

Ans
- ✗ 1. 60 dBA
- ✗ 2. 80 dBA
- ✗ 3. 50 dBA
- ✓ 4. 70 dBA

Question Type : **MCQ**
Question ID : **38786894**
Option 1 ID : **387868366**
Option 2 ID : **387868368**
Option 3 ID : **387868365**
Option 4 ID : **387868367**
Status : **Answered**
Chosen Option : **1**

**Q.77** Which of the following is NOT a cause of soil erosion?

Ans
- ✗ 1. over-grazing
- ✓ 2. increase in soil microorganisms
- ✗ 3. mining
- ✗ 4. deforestation at a large scale

Question Type : **MCQ**
Question ID : **38786895**
Option 1 ID : **387868370**
Option 2 ID : **387868369**
Option 3 ID : **387868372**
Option 4 ID : **387868371**
Status : **Answered**
Chosen Option : **2**

**Q.78** Which type of cement contains lower percentage of tricalcium aluminates ($C_3A$) and higher percentage of dicalcium silicate ($C_2S$)? Such cement is used for mass concrete works.

Ans
- ✗ 1. Pozzolana cement
- ✗ 2. Rapid hardening cement
- ✗ 3. Hydrophobic cement
- ✓ 4. Low heat cement

Question Type : **MCQ**
Question ID : **38786844**
Option 1 ID : **387868165**
Option 2 ID : **387868167**
Option 3 ID : **387868166**
Option 4 ID : **387868168**
Status : **Answered**

**Q.79** Select the correct statement with regard to standard specifications in estimating and costing.

**Ans** ✗ 1.
It is a short description of different parts of the work specifying materials, proportion, qualities etc.

✓ 2.
It is not necessary to write detailed specifications with all the contract bonds but only serial numbers of the work will be mentioned.

✗ 3.
It is not necessary to write detailed specifications with all the contract bonds.

✗ 4.
It is necessary to write detailed specifications with all the contract bonds against work.

Question Type : **MCQ**
Question ID : **38786889**
Option 1 ID : **387868347**
Option 2 ID : **387868348**
Option 3 ID : **387868346**
Option 4 ID : **387868345**
Status : **Answered**
Chosen Option : **4**

**Q.80** Select the correct statement with regard to compaction of soils.

**Ans** ✗ 1. Relative compaction is the same as relative density.

✗ 2.
A hammer of 4.89 kg and a drop of 450 mm is used in standard compaction test.

✗ 3.
Vibroflotation is effective in the case of highly cohesive soils.

✓ 4. Zero air void line and 100% saturation line are identical.

Question Type : **MCQ**
Question ID : **38786863**
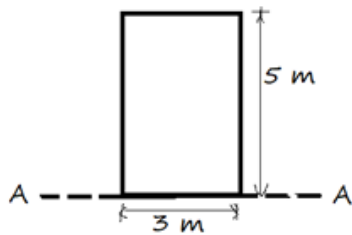Option 1 ID : **387868241**
Option 2 ID : **387868243**
Option 3 ID : **387868242**
Option 4 ID : **387868244**
Status : **Answered**
Chosen Option : **4**

**Q.81** The moment of inertia of the following rectangle about the axis AA is:



**Ans**

✗ 1. $225 \text{ m}^4$

✗ 2. $32 \text{ m}^4$

✗ 3. $68 \text{ m}^4$

✔ 4. $125 \text{ m}^4$

**Q.82** Find the centre to centre line length for the 2 roomed house plan shown in the following figure using long wall and short wall method. Take thickness of wall = 30 cm.
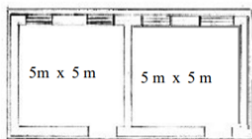


**Ans**

✗ 1. 42.2 m

✔ 2. 37.1 m

✗ 3. 34.5 m

✗ 4. 28.5 m

**Q.83** The initial setting time of ordinary Portland cement as per Indian standard specification is:

**Ans**

✗ 1. 25 minutes

✗ 2. 10 minutes

✗ 3. 40 minutes

✔ 4. 30 minutes

Question Type : **MCQ**

Question ID : **38786855**
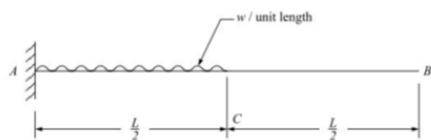
Option 1 ID : **387868210**

Option 2 ID : **387868209**

Option 3 ID : **387868212**

Option 4 ID : **387868211**

Status : **Answered**

Chosen Option : **4**

**Q.84** What is the deflection at the free end of the cantilever beam shown in the following figure using the moment area method, where $E$ is Young's modulus and $I$ is Moment of inertia?



**Ans**

✔ 1. $\dfrac{7wL^4}{384EI}$

✗ 2. $\dfrac{wL^3}{6EI}$

✗ 3. $\dfrac{wL^4}{8EI}$

✗ 4. $\dfrac{wL^3}{48EI}$

Question Type : **MCQ**

Question ID : **38786870**

Option 1 ID : **387868270**

Option 2 ID : **387868272**

Option 3 ID : **387868271**

Option 4 ID : **387868269**

Status : **Answered**

Chosen Option : **2**

**Q.85** Which of the following is NOT a volumetric ratio in geotechnical engineering?

**Ans**

✗ 1. Void ratio

✗ 2. Porosity

✗ 3. Degree of saturation

✔ 4. Specific gravity

Question Type : **MCQ**

Question ID : **38786860**

Option 1 ID : **387868229**

Option 2 ID : **387868231**

Option 3 ID : **387868232**

Option 4 ID : **387868230**

Status : **Answered**

Chosen Option : **3**

**Q.86** 'दगड किंवा शिळांचे उत्खनन' यांसारख्या कामातील घटकांच्या मापनासाठी खालीलपैकी कोणते एकक योग्य आहे?

**Ans**

✗ 1. टन

✔ 2. घन मीटर

✗ 3. वर्ग मीटर

✗ 4. रनिंग मीटर

Question Type : **MCQ**

Question ID : **38786890**

Option 1 ID : **387868349**

Option 2 ID : **387868350**

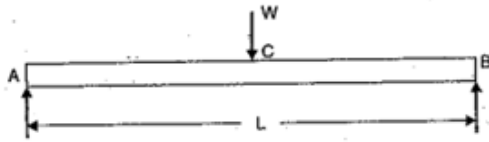Option 3 ID : **387868352**

Option 4 ID : **387868351**

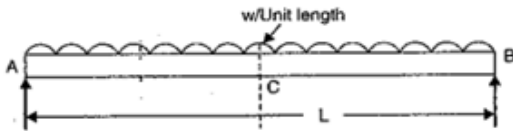Status : **Answered**

Chosen Option : **2**

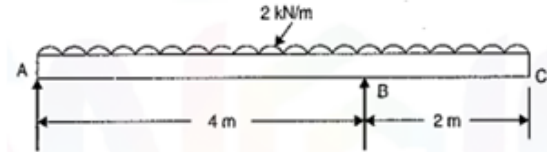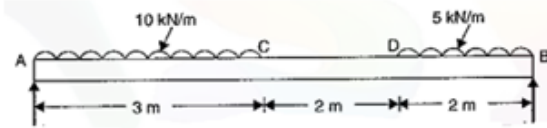**Q.87** The point of contraflexure will occur in which of the following beams subjected to different loads?

**Ans**

✘ 1.



✘ 2.



✔ 3.



✘ 4.

**Q.88** The moments over the intermediate supports of a continuous beam is determined by using:

**Ans**

✔ 1. Clapeyron's theorem

✘ 2. column analogy method

✘ 3. strain energy method

✘ 4. moment area theorem

**Q.89** The following statements are related to admixtures of concrete. Select the correct option.

1. Accelerators: these are the admixtures that accelerate the development of early strength of concrete.

2. Retarders: these are the admixtures which delay the setting of concrete, as measured by the penetration test.

**Ans**

✗ 1. 1 is correct and 2 is incorrect.

✗ 2. Both are incorrect.

✗ 3. 1 is incorrect and 2 is correct.

✔ 4. Both are correct.

Question Type : **MCQ**
Question ID : **38786857**
Option 1 ID : **387868217**
Option 2 ID : **387868219**
Option 3 ID : **387868218**
Option 4 ID : **387868220**
Status : **Answered**
Chosen Option : **4**

**Q.90** Which of the following is NOT a chemical classification of rocks?

**Ans**

✔ 1. Foliated Rocks

✗ 2. Argillaceous Rocks

✗ 3. Siliceous rocks

✗ 4. Calcareous rocks

Question Type : **MCQ**
Question ID : **38786843**
Option 1 ID : **387868161**
Option 2 ID : **387868163**
Option 3 ID : **387868162**
Option 4 ID : **387868164**
Status : **Answered**
Chosen Option : **1**

**Q.91** The process of combustion of solid waste in the absence of oxygen is called:

**Ans**

✗ 1. bioremediation

✗ 2. composting

✔ 3. incineration and pyrolysis

✗ 4. sanitary land fill

Question Type : **MCQ**
Question ID : **38786897**
Option 1 ID : **387868379**
Option 2 ID : **387868378**
Option 3 ID : **387868380**
Option 4 ID : **387868377**
Status : **Answered**

**Q.92** एका विभेदक दाबमापीचे प्रमापी अंतर (gauge difference) 0.5 m आहे. पाण्याच्या दाबातील अंतर मीटरमध्ये किती असेल?

Ans
  ✗ 1. 7.4
  ✗ 2. 0.5
  ✓ 3. 6.3
  ✗ 4. 12.6

Question Type : **MCQ**
Question ID : **38786865**
Option 1 ID : **387868251**
Option 2 ID : **387868249**
Option 3 ID : **387868250**
Option 4 ID : **387868252**
Status : **Answered**
Chosen Option : **3**

**Q.93** खालीलपैकी कोणत्या नवीनीकरणयोग्य ऊर्जेची (of renewable energy) निर्मिती उष्णता ऊर्जेपासून होते?

Ans
  ✗ 1. भरती-ओहोटी ऊर्जा (Tidal energy)
  ✓ 2. सौर ऊर्जा (Solar energy)
  ✗ 3. जल ऊर्जा (Hydro energy)
  ✗ 4. पवन ऊर्जा (Wind energy)

Question Type : **MCQ**
Question ID : **38786896**
Option 1 ID : **387868375**
Option 2 ID : **387868374**
Option 3 ID : **387868373**
Option 4 ID : **387868376**
Status : **Answered**
Chosen Option : **2**

**Q.94** According to IS 456-2000, the basic values of span to effective depth ratios for spans up to 10 m in the case of continuous beams is:

Ans
  ✓ 1. 26
  ✗ 2. 7
  ✗ 3. 20
  ✗ 4. 5

Question Type : **MCQ**
Question ID : **38786886**
Option 1 ID : **387868336**
Option 2 ID : **387868334**
Option 3 ID : **387868335**
Option 4 ID : **387868333**
Status : **Answered**
Chosen Option : **2**

**Q.95** The centroid of a semicircle having a radius of $R$ from the diameter is:

**Ans**

✗ 1. $\dfrac{R}{4\pi}$

✗ 2. $\dfrac{3R}{4\pi}$

✔ 3. $\dfrac{4R}{3\pi}$

✗ 4. $\dfrac{2R}{3\pi}$

Question Type : **MCQ**

Question ID : **387868101**

Option 1 ID : **387868396**

Option 2 ID : **387868393**

Option 3 ID : **387868394**

Option 4 ID : **387868395**

Status : **Answered**

Chosen Option : **2**

**Q.96** What is the function of an intermediate transverse web stiffener?

**Ans** ✗ 1.
To prevent local buckling of the web due to concentrated loading.

✗ 2.
To provide local reinforcement to a web under shear and bearing.

✔ 3.
To improve the buckling strength of a slender web due to shear.

✗ 4.
To prevent local crushing of the web due to concentrated loading.

Question Type : **MCQ**

Question ID : **38786888**

Option 1 ID : **387868341**

Option 2 ID : **387868342**

Option 3 ID : **387868343**

Option 4 ID : **387868344**

Status : **Answered**

Chosen Option : **1**

**Q.97** सजीव समुदायांदरम्यान (वनस्पती, प्राणी आणि जीव) आणि निर्जिव समुदाय (माती, हवा आणि पाणी) यांच्यातील आंतरक्रिया आणि परस्परसंबंध यांना काय म्हणून संदर्भित केले जाते?

Ans

✗ 1. ट्रोपोसिस्टिम (troposystem)

✔ 2. परिस्थितीकी संस्था (ecosystem)

✗ 3. बायोसिस्टिम (biosystem)

✗ 4. हायड्रोसिस्टिम (hydrosystem)

Question Type : **MCQ**

Question ID : **38786893**

Option 1 ID : **387868361**

Option 2 ID : **387868364**

Option 3 ID : **387868362**

Option 4 ID : **387868363**

Status : **Answered**

Chosen Option : **3**

---

**Q.98** A tensile force ($P$) is acting on a beam of length ($L$) and cross-sectional area ($A$). The change in length would be:

Ans

✗ 1. $\dfrac{PE}{LA}$

✗ 2. $\dfrac{P}{LAE}$

✗ 3. $\dfrac{AL}{PE}$

✔ 4. $\dfrac{PL}{AE}$

Question Type : **MCQ**

Question ID : **38786853**

Option 1 ID : **387868202**

Option 2 ID : **387868201**

Option 3 ID : **387868204**

Option 4 ID : **387868203**

Status : **Answered**

Chosen Option : **4**

**Q.99** An example of a quick setting admixture is _____, which is used to promote a flash set in shotcreting.

**Ans**

✗ 1. sugar

✗ 2. soluble borates

✓ 3. washing soda

✗ 4. soluble zinc salts

Question Type : **MCQ**
Question ID : **38786858**
Option 1 ID : **387868222**
Option 2 ID : **387868224**
Option 3 ID : **387868221**
Option 4 ID : **387868223**
Status : **Answered**
Chosen Option : **4**

**Q.100** The maximum spacing of shear reinforcement measured along the axis of the member shall NOT exceed _____ for vertical stirrups and in NO CASE shall spacing exceed _____, where d is the effective depth of the section under consideration.

**Ans**

✓ 1. 0.75 d and 300 mm

✗ 2. 0.85 d and 475 mm

✗ 3. 0.25 d and 350 mm

✗ 4. 0.5 d and 400 mm

Question Type : **MCQ**
Question ID : **38786883**
Option 1 ID : **387868323**
Option 2 ID : **387868324**
Option 3 ID : **387868321**
Option 4 ID : **387868322**
Status : **Answered**
Chosen Option : **3**

महाराष्ट्र शासन
जलसंपदा विभाग
कनिष्ठ अभियंता (स्थापत्य) गट-ब (अराजपत्रित) सरळसेवा परीक्षा-२०१९

| Participant ID | 123 |
|---|---|
| Participant Name | xyz |
| Test Center Name | iON Digital Zone iDZ 3 Wadi MIDC Techgressor Soft Solutions Pvt. Ltd. Nagpur |
| Test Date | 06/08/2022 |
| Test Time | 12:30 PM - 2:00 PM |
| Subject | Cluster 1 |

Section : **English**

**Q.1** **Select the most appropriate meaning of the given idiom.**

**Go astray**

Ans  ✗ 1. Travel a long way

✗ 2. Run away secretly

✗ 3. Live away from home

✔ 4. Follow a wrong path

Question Type : **MCQ**
Question ID : **387868108**
Option 1 ID : **387868424**
Option 2 ID : **387868421**
Option 3 ID : **387868423**
Option 4 ID : **387868422**
Status : **Answered**
Chosen Option : **1**

**Q.2** Select the most appropriate synonym of the given word.

**Confer**

Ans ✗ 1. Criticise

✗ 2. Condemn

✓ 3. Consult

✗ 4. Collect

Question Type : **MCQ**
Question ID : **387868107**
Option 1 ID : **387868417**
Option 2 ID : **387868419**
Option 3 ID : **387868420**
Option 4 ID : **387868418**
Status : **Answered**
Chosen Option : **3**

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**Q.3** Select the most appropriate ANTONYM of the given word.

**Crude**

Ans ✗ 1. Rough

✗ 2. Remote

✓ 3. Refined

✗ 4. Rigid

Question Type : **MCQ**
Question ID : **387868106**
Option 1 ID : **387868413**
Option 2 ID : **387868415**
Option 3 ID : **387868414**
Option 4 ID : **387868416**
Status : **Answered**
Chosen Option : **1**

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**Q.4** Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A.The teacher-in-charge stared at me and said, "Just take one apple. God is watching."
B.One day I was in the lunch line, and there I saw a pile of apples.
C.The kid behind me whispered ." Take all you want. God is watching the apples."
D.At the next table there was a pile of chocolate chip cookies. I did not know what to do.

Ans ✓ 1. BADC

✗ 2. BCAD

✗ 3. ACBD

✗ 4. CBAD

Question Type : **MCQ**
Question ID : **387868109**
Option 1 ID : **387868426**
Option 2 ID : **387868428**
): **387868425**
): **387868427**
Status : **Answered**

**Q.5** Select the most appropriate option to fill in the blank.

I am facing some problems _____ my car these days.

**Ans** ✅ 1. with

❌ 2. off

❌ 3. by

❌ 4. on

Question Type : **MCQ**

Question ID : **387868104**

Option 1 ID : **387868406**

Option 2 ID : **387868408**

Option 3 ID : **387868405**

Option 4 ID : **387868407**

Status : **Answered**

Chosen Option : **4**

---

**Q.6** Select the most appropriate option to fill in the blank.

As she _____down from the train, she bumped into a porter.

**Ans** ❌ 1. had been stepping

❌ 2. had stepped

❌ 3. steps

✅ 4. was stepping

Question Type : **MCQ**

Question ID : **387868105**

Option 1 ID : **387868412**

Option 2 ID : **387868410**

Option 3 ID : **387868409**

Option 4 ID : **387868411**

Status : **Answered**

Chosen Option : **2**

---

**Q.7** Select the most appropriate option to fill in the blank.

She whispered so _____that nobody could hear her.

**Ans** ✅ 1. softly

❌ 2. politely

❌ 3. easily

❌ 4. nicely

Question Type : **MCQ**

Question ID : **387868103**

Option 1 ID : **387868403**

Option 2 ID : **387868402**

Option 3 ID : **387868401**

Option 4 ID : **387868404**

Status : **Answered**

Chosen Option : **1**

**Comprehension:**

Read the given passage and answer the questions that follow.

Life cannot be imagined without water, but clean and adequate water is still not accessible to most of the people in India. India receives 90 per cent of the water from major or medium rivers. It has 14 major rivers each having a catchment area of 20,000 sq. km and above; while there are 44 medium rivers with a coastline between 2,000 and 20,000 sq. kms. Then, there are 53 small rivers each with catchment area of 2,000 sq. kms.

According to the 2011 census, annual per capita water availability in the country decreased to 1,545 cubic meters from 1,816 cubic meters as per the 2001 census. At present, this situation is even more worrisome. Scientists believe that, by 2050, there will be a 30 per cent decrease in the availability of water per person. The World Health Organization (WHO) recommends the availability of 200 litres of water per person per day in urban areas. On the contrary, 140 litres of water is supplied per person per day in the country.

Water resources in India are predominantly dependent on the monsoon. India receives an average rainfall of 4,000 BCM (Billion Cubic Meter) every year from the rain, but most of it is vapourised and goes down the drains. Statistics show that a dearth of storage procedures, lack of adequate infrastructure and inappropriate water management have created a situation where only 18-20% of the water is actually used. The remainder just gets wasted, aggravating the problem of ground water depletion.

Our country's economy primarily rests on agriculture. Agriculture contributes 40 per cent to the GDP of the country, and accounts for 60 per cent of the total export revenues. One of the major reasons for the water crisis in the country is that as the area of irrigated land has increased, the level of groundwater has declined.

**SubQuestion No : 8**

**Q.8** The word 'dearth' as used in the passage means:

**Ans** ✔ 1. shortage

✘ 2. crisis

✘ 3. decline

✘ 4. availability

Question Type : **MCQ**
Question ID : **387868113**
Option 1 ID : **387868440**
Option 2 ID : **387868438**
Option 3 ID : **387868437**
Option 4 ID : **387868439**
Status : **Answered**
Chosen Option : **2**

**Comprehension:**

Read the given passage and answer the questions that follow.

Life cannot be imagined without water, but clean and adequate water is still not accessible to most of the people in India. India receives 90 per cent of the water from major or medium rivers. It has 14 major rivers each having a catchment area of 20,000 sq. km and above; while there are 44 medium rivers with a coastline between 2,000 and 20,000 sq. kms. Then, there are 53 small rivers each with catchment area of 2,000 sq. kms.

According to the 2011 census, annual per capita water availability in the country decreased to 1,545 cubic meters from 1,816 cubic meters as per the 2001 census. At present, this situation is even more worrisome. Scientists believe that, by 2050, there will be a 30 per cent decrease in the availability of water per person. The World Health Organization (WHO) recommends the availability of 200 litres of water per person per day in urban areas. On the contrary, 140 litres of water is supplied per person per day in the country.

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Our country's economy primarily rests on agriculture. Agriculture contributes 40 per cent to the GDP of the country, and accounts for 60 per cent of the total export revenues. One of the major reasons for the water crisis in the country is that as the area of irrigated land has increased, the level of groundwater has declined.

**SubQuestion No : 9**

**Q.9** The water crisis in the country is majorly due to:

**Ans** ✗ 1. lack of proper infrastructure

✗ 2. inadequate rainfall

✗ 3. inadequate storage procedure

✓ 4. increase in irrigated land and depletion of ground water

Question Type : **MCQ**
Question ID : **387868111**
Option 1 ID : **387868429**
Option 2 ID : **387868432**
Option 3 ID : **387868430**
Option 4 ID : **387868431**
Status : **Answered**
Chosen Option : **1**

**Comprehension:**

Read the given passage and answer the questions that follow.

Life cannot be imagined without water, but clean and adequate water is still not accessible to most of the people in India. India receives 90 per cent of the water from major or medium rivers. It has 14 major rivers each having a catchment area of 20,000 sq. km and above; while there are 44 medium rivers with a coastline between 2,000 and 20,000 sq. kms. Then, there are 53 small rivers each with catchment area of 2,000 sq. kms.

According to the 2011 census, annual per capita water availability in the country decreased to 1,545 cubic meters from 1,816 cubic meters as per the 2001 census. At present, this situation is even more worrisome. Scientists believe that, by 2050, there will be a 30 per cent decrease in the availability of water per person. The World Health Organization (WHO) recommends the availability of 200 litres of water per person per day in urban areas. On the contrary, 140 litres of water is supplied per person per day in the country.

Water resources in India are predominantly dependent on the monsoon. India receives an average rainfall of 4,000 BCM (Billion Cubic Meter) every year from the rain, but most of it is vapourised and goes down the drains. Statistics show that a dearth of storage procedures, lack of adequate infrastructure and inappropriate water management have created a situation where only 18-20% of the water is actually used. The remainder just gets wasted, aggravating the problem of ground water depletion.

Our country's economy primarily rests on agriculture. Agriculture contributes 40 per cent to the GDP of the country, and accounts for 60 per cent of the total export revenues. One of the major reasons for the water crisis in the country is that as the area of irrigated land has increased, the level of groundwater has declined.

**SubQuestion No : 10**

**Q.10 By 2050, the decrease in availability of water per person is estimated to be:**

Ans   ✗ 1. 20%

     ✗ 2. 40%

     ✔ 3. 30%

     ✗ 4. 50%

Question Type : **MCQ**

Question ID : **387868112**

Option 1 ID : **387868433**

Option 2 ID : **387868435**

Option 3 ID : **387868434**

Option 4 ID : **387868436**

Status : **Not Answered**

Chosen Option : **--**

Section : **Marathi**

**Q.11 मुलांना (आंबट) बोरे आवडतात. कंसातील शब्दाचा प्रकार ओळखा**

Ans   ✔ 1. विशेषण

     ✗ 2. भाववाचक नाम

     ✗ 3. सर्वनाम

     ✗ 4. क्रियापद

Question Type : **MCQ**

Question ID : **387868115**

Option 1 ID : **387868445**

Option 2 ID : **387868447**

Option 3 ID : **387868446**

Option 4 ID : **387868448**

Status : **Answered**

Chosen Option : **1**

**Q.12** " सगळीकडे सारखीच परिस्थिती असणे " या अर्थाची म्हण कोणती आहे?

**Ans** ✅ 1. पळसाला पाने तीनच

❌ 2. परदुःख शीतल

❌ 3. पाचा मुखी परमेश्वर

❌ 4. पी हळद हो गोरी

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868119** |
| Option 1 ID : | **387868463** |
| Option 2 ID : | **387868462** |
| Option 3 ID : | **387868461** |
| Option 4 ID : | **387868464** |
| Status : | **Answered** |
| Chosen Option : | **3** |

**Q.13** अचूक वाक्यरचना शोधा.

**Ans** ❌ 1. वेगळी झालेली चमत्कारिक आणि माणसे येथे जमा होती.

✅ 2. येथे जमा झालेली माणसे वेगळी आणि चमत्कारिक होती.

❌ 3. माणसे येथे जमा होती वेगळी आणि चमत्कारिक झालेली.

❌ 4. चमत्कारिक आणि माणसे वेगळी जमा झालेली होती येथे.

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868120** |
| Option 1 ID : | **387868467** |
| Option 2 ID : | **387868466** |
| Option 3 ID : | **387868468** |
| Option 4 ID : | **387868465** |
| Status : | **Answered** |
| Chosen Option : | **2** |

**Q.14** " पौर्णिमा " या शब्दाचा विरुद्धार्थी शब्द कोणता?

**Ans** ❌ 1. सूर्यप्रकाश

❌ 2. चांदणे

❌ 3. चंद्रप्रकाश

✅ 4. अमावास्या

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868118** |
| Option 1 ID : | **387868460** |
| Option 2 ID : | **387868457** |
| Option 3 ID : | **387868459** |
| Option 4 ID : | **387868458** |
| Status : | **Answered** |
| Chosen Option : | **3** |

**Q.15** ' मी फुले तोडली. ' या वाक्याचा काळ ओळखा.

Ans ✗ 1. पूर्ण भूतकाळ

✓ 2. साधा भूतकाळ

✗ 3. रीति भूतकाळ

✗ 4. अपूर्ण भूतकाळ

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868116** |
| Option 1 ID : | **387868451** |
| Option 2 ID : | **387868449** |
| Option 3 ID : | **387868452** |
| Option 4 ID : | **387868450** |
| Status : | **Answered** |
| Chosen Option : | **2** |

**Q.16** पुढील वाक्यातील क्रियाविशेषण अव्यय ओळखा.

काळाभोर साप माझ्या समोरून गेला.

Ans ✗ 1. माझ्या

✓ 2. समोरून

✗ 3. काळाभोर

✗ 4. साप

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868114** |
| Option 1 ID : | **387868442** |
| Option 2 ID : | **387868444** |
| Option 3 ID : | **387868443** |
| Option 4 ID : | **387868441** |
| Status : | **Answered** |
| Chosen Option : | **2** |

**Q.17** ' सुगंध ' या शब्दाचा समानार्थी शब्द कोणता?

Ans ✗ 1. सुरेल

✗ 2. प्रतिमा

✗ 3. सुदैव

✓ 4. परिमल

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868117** |
| Option 1 ID : | **387868454** |
| Option 2 ID : | **387868455** |
| Option 3 ID : | **387868456** |
| Option 4 ID : | **387868453** |
| Status : | **Answered** |
| Chosen Option : | **4** |

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या.

माझे लहानपण आरवली या गावी गेले. हा गाव छोटा आणि सुंदर आहे. आरवली सिंधुदुर्ग जिल्ह्यात, वेंगुर्ले तालुक्यात आहे.या माझ्या गावीच नाही तर सबंध कोकणात दसरा-- दिवाळीपेक्षा गणपतीचा उत्सव सर्वात महत्त्वाचा असतो. गणपतीचे दिवस म्हणजे माझ्या बालपणातील अत्यंत सुखाचा काळ .मुंबईत दिवाळीला फटाक्यांची दुकाने उघडतात आणि दिवाळीत फटाके लावले जातात. आमच्या कोकणात फटाके गणपतीला. एकूण दीड दिवसात गणपतीला फटाक्यांच्या आठ --दहा माळा उडवल्या की खूप झाले! म्हणजे पैशांच्या दृष्टीने खूप झाले. त्या काळात आतासारखा पैसा दिसत नसे. आमचा दोन फूट उंचीचा गणपती चार पाच रूपयात मिळायचा. आमच्या गावात गणपती तयार करणारे खूप लोक होते. शिवाय अनेकजण आपला गणपती आपणच करायचे. पण आरवली गावात खरा गणपती करणारा कलाकार म्हणजे रगजी! आजही त्याच्याच घराण्यातील मंडळी आरवली गावातले बहुसंख्य गणपती करतात. गणपतीच्या आधी त्याच्या घरातला कोणीतरी येऊन आमच्या घरातला-लाकडी ,कोरीव चौरंग घेऊन जायचा. आणि माझी भावंडे-- गुरुनाथ,सदानंद रगजीच्या घरी फेरी टाकत आणि गणपतीचे कोणते अवयव तयार झाले त्याची बातमी देत असत. शिरोडे गावातल्या सारंग यांचा गणपती बघणे हे आमचे मोठे काम होते.

**SubQuestion No : 18**

**Q.18** आरवली गावाचा तालुका कोणता आहे?

**Ans** ✗ 1. कोकण

✔ 2. वेंगुर्ले

✗ 3. सिंधुदुर्ग

✗ 4. शिरोडे

Question Type : **MCQ**
Question ID : **387868123**
Option 1 ID : **387868476**
Option 2 ID : **387868475**
Option 3 ID : **387868474**
Option 4 ID : **387868473**
Status : **Answered**
Chosen Option : **2**

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या.

माझे लहानपण आरवली या गावी गेले. हा गाव छोटा आणि सुंदर आहे. आरवली सिंधुदुर्ग जिल्ह्यात, वेंगुर्ले तालुक्यात आहे.या माझ्या गावीच नाही तर सबंध कोकणात दसरा-- दिवाळीपेक्षा गणपतीचा उत्सव सर्वात महत्त्वाचा असतो. गणपतीचे दिवस म्हणजे माझ्या बालपणातील अत्यंत सुखाचा काळ .मुंबईत दिवाळीला फटाक्यांची दुकाने उघडतात आणि दिवाळीत फटाके लावले जातात. आमच्या कोकणात फटाके गणपतीला. एकूण दीड दिवसात गणपतीला फटाक्यांच्या आठ --दहा माळा उडवल्या की खूप झाले! म्हणजे पैशांच्या दृष्टीने खूप झाले. त्या काळात आतासारखा पैसा दिसत नसे. आमचा दोन फूट उंचीचा गणपती चार पाच रूपयात मिळायचा. आमच्या गावात गणपती तयार करणारे खूप लोक होते. शिवाय अनेकजण आपला गणपती आपणच करायचे. पण आरवली गावात खरा गणपती करणारा कलाकार म्हणजे रगजी! आजही त्याच्याच घराण्यातील मंडळी आरवली गावातले बहुसंख्य गणपती करतात. गणपतीच्या आधी त्याच्या घरातला कोणीतरी येऊन आमच्या घरातला-लाकडी ,कोरीव चौरंग घेऊन जायचा. आणि माझी भावंडे-- गुरुनाथ,सदानंद रगजीच्या घरी फेरी टाकत आणि गणपतीचे कोणते अवयव तयार झाले त्याची बातमी देत असत. शिरोडे गावातल्या सारंग यांचा गणपती बघणे हे आमचे मोठे काम होते.

**SubQuestion No : 19**

**Q.19 कोकणातील सर्वात महत्त्वाचा सण कोणता आहे?**

Ans   ✗ 1. दिवाळी

   ✔ 2. गणेशोत्सव

   ✗ 3. गुढीपाडवा

   ✗ 4. दसरा

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868124** |
| Option 1 ID : | **387868477** |
| Option 2 ID : | **387868479** |
| Option 3 ID : | **387868480** |
| Option 4 ID : | **387868478** |
| Status : | **Answered** |
| Chosen Option : | **2** |

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या.

माझे लहानपण आरवली या गावी गेले. हा गाव छोटा आणि सुंदर आहे. आरवली सिंधुदुर्ग जिल्ह्यात, वेंगुर्ले तालुक्यात आहे.या माझ्या गावीच नाही तर सबंध कोकणात दसरा– दिवाळीपेक्षा गणपतीचा उत्सव सर्वात महत्त्वाचा असतो. गणपतीचे दिवस म्हणजे माझ्या बालपणातील अत्यंत सुखाचा काळ .मुंबईत दिवाळीला फटाक्यांची दुकाने उघडतात आणि दिवाळीत फटाके लावले जातात. आमच्या कोकणात फटाके गणपतीला. एकूण दीड दिवसात गणपतीला फटाक्यांच्या आठ –दहा माळा उडवल्या की खूप झाले! म्हणजे पैशांच्या दृष्टीने खूप झाले. त्या काळात आतासारखा पैसा दिसत नसे. आमचा दोन फूट उंचीचा गणपती चार पाच रूपयात मिळायचा. आमच्या गावात गणपती तयार करणारे खूप लोक होते. शिवाय अनेकजण आपला गणपती आपणच करायचे. पण आरवली गावात खरा गणपती करणारा कलाकार म्हणजे रगजी! आजही त्याच्याच घराण्यातील मंडळी आरवली गावातले बहुसंख्य गणपती करतात. गणपतीच्या आधी त्याच्या घरातला कोणीतरी येऊन आमच्या घरातला-लाकडी ,कोरीव चौरंग घेऊन जायचा. आणि माझी भावंडे– गुरुनाथ,सदानंद रगजीच्या घरी फेरी टाकत आणि गणपतीचे कोणते अवयव तयार झाले त्याची बातमी देत असत. शिरोडे गावातल्या सारंग यांचा गणपती बघणे हे आमचे मोठे काम होते.

**SubQuestion No : 20**

**Q.20 लेखकाच्या घरचा गणपती कोण तयार करत असे?**

Ans ✗ 1. गुरुनाथ

✗ 2. सदानंद

✗ 3. लेखक

✓ 4. रगजी

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|---|---|
| Question Type : **MCQ** | |
| Question ID : **387868122** | |
| Option 1 ID : **387868470** | |
| Option 2 ID : **387868469** | |
| Option 3 ID : **387868471** | |
| Option 4 ID : **387868472** | |
| Status : **Answered** | |
| Chosen Option : **3** | |

Section : **General Knowledge**

**Q.21 How many constituencies were there in the first Maharashtra Vidhan Sabha (the lower house of the Maharashtra state legislature) in 1960?**

Ans ✗ 1. 288

✓ 2. 264

✗ 3. 245

✗ 4. 276

| | |
|---|---|
| Question Type : **MCQ** | |
| Question ID : **387868130** | |
| Option 1 ID : **387868504** | |
| Option 2 ID : **387868502** | |
| Option 3 ID : **387868501** | |
| Option 4 ID : **387868503** | |
| Status : **Answered** | |
| Chosen Option : **3** | |

**Q.22** The goods whose demand falls due to the fall in their price is called:

**Ans**  ✗ 1. Non-rivalrous goods

✓ 2. Giffen goods

✗ 3. Inferior goods

✗ 4. Excludable goods

Question Type : **MCQ**
Question ID : **387868129**
Option 1 ID : **387868498**
Option 2 ID : **387868500**
Option 3 ID : **387868499**
Option 4 ID : **387868497**
Status : **Answered**
Chosen Option : **3**

**Q.23** Which of the following has the lowest share in the population of Maharashtra according to Census 2011?

**Ans**  ✗ 1. Buddhism

✗ 2. Jainism

✗ 3. Islam

✓ 4. Sikhism

Question Type : **MCQ**
Question ID : **387868134**
Option 1 ID : **387868518**
Option 2 ID : **387868519**
Option 3 ID : **387868517**
Option 4 ID : **387868520**
Status : **Answered**
Chosen Option : **4**

**Q.24** Who is the leader of the opposition in the Maharashtra legislative council (as of March 2022)?

**Ans**  ✗ 1. Dhananjay Munde

✗ 2. RV Patil

✓ 3. Devendra Fadnavis

✗ 4. Pravin Darekar

Question Type : **MCQ**
Question ID : **387868131**
Option 1 ID : **387868506**
Option 2 ID : **387868508**
Option 3 ID : **387868505**
Option 4 ID : **387868507**
Status : **Answered**
Chosen Option : **3**

**Q.25 Palli village which became India's first carbon-neutral panchayat is located in:**

Ans   ✗ 1. Goa

     ✔ 2. Jammu and Kashmir

     ✗ 3. Sikkim

     ✗ 4. Andaman and Nicobar

Question Type : **MCQ**
Question ID : **387868127**
Option 1 ID : **387868490**
Option 2 ID : **387868492**
Option 3 ID : **387868489**
Option 4 ID : **387868491**
Status : **Answered**
Chosen Option : **3**

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**Q.26 Rafael Nadal broke a three-way tie with Roger Federer and Novak Djokovic by claiming his 21st Grand Slam title at Australian Open 2022. Whom did Rafael Nadal defeat in the final match of the Australian Open 2022?**

Ans   ✔ 1. D Medvedev

     ✗ 2. A Murray

     ✗ 3. M Berrettini

     ✗ 4. S Tsitsipas

Question Type : **MCQ**
Question ID : **387868125**
Option 1 ID : **387868483**
Option 2 ID : **387868481**
Option 3 ID : **387868484**
Option 4 ID : **387868482**
Status : **Answered**
Chosen Option : **2**

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**Q.27 Which of the following minerals has their commercially exploitable deposits located in the districts of Gadchiroli, Chandrapur, Sindhudurg and Bhandara of Maharashtra?**

Ans   ✔ 1. Iron

     ✗ 2. Mica

     ✗ 3. Copper

     ✗ 4. Zinc

Question Type : **MCQ**
Question ID : **387868132**
Option 1 ID : **387868509**
Option 2 ID : **387868510**
Option 3 ID : **387868511**
Option 4 ID : **387868512**
Status : **Answered**
Chosen Option : **3**

**Q.28** What will be the likely consequence on the credit creation capacity of the commercial banks when the Reserve Bank of India sells securities to the commercial banks?

**Ans** ✗ 1. The credit creation capacity will increase.

✗ 2. The credit creation capacity will not change.

✔ 3. The credit creation capacity will decrease.

✗ 4. The credit creation capacity will may increase or decrease.

Question Type : **MCQ**
Question ID : **387868128**
Option 1 ID : **387868493**
Option 2 ID : **387868496**
Option 3 ID : **387868494**
Option 4 ID : **387868495**
Status : **Answered**
Chosen Option : **2**

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**Q.29** Choose the option from the following in which the mountain peaks located in Maharashtra are correctly written according to the ascending order of their elevation.

**Ans** ✗ 1. Torna, Salher, Brahmagiri, Kalsubai

✗ 2. Brahmagiri, Salher, Torna, Kalsubai

✔ 3. Brahmagiri, Torna, Salher, Kalsubai

✗ 4. Kalsubai, Salher, Brahmagiri, Torna

Question Type : **MCQ**
Question ID : **387868133**
Option 1 ID : **387868514**
Option 2 ID : **387868515**
Option 3 ID : **387868516**
Option 4 ID : **387868513**
Status : **Answered**
Chosen Option : **2**

---

**Q.30** In March 2022, which state's living root bridges (found in over 70 villages in the state) have now found a place on the tentative list of UNESCO's World Heritage Sites?

**Ans** ✔ 1. Meghalaya

✗ 2. Himachal Pradesh

✗ 3. Odisha

✗ 4. Arunachal Pradesh

Question Type : **MCQ**
Question ID : **387868126**
Option 1 ID : **387868486**
Option 2 ID : **387868488**
Option 3 ID : **387868487**
Option 4 ID : **387868485**
Status : **Answered**
Chosen Option : **2**

Section : **Logical Ability**

**Q.31** Select the term from among the given options that can replace the question mark (?) in the following series.

VNG 3, YKJ 4, BHM 8, EEP 17, HBS 33, ?

**Ans**   ✗ 1. KVY 48

   ✗ 2. LVX 58

   ✗ 3. LXV 45

   ✓ 4. KYV 58

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|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868139** |
| Option 1 ID : | **387868538** |
| Option 2 ID : | **387868537** |
| Option 3 ID : | **387868540** |
| Option 4 ID : | **387868539** |
| Status : | **Answered** |
| Chosen Option : | **2** |

**Q.32** Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:
All engines are mallets.
All mallets are bunkers.
All bunkers are pliers.

Conclusions:
(I)All bunkers are engines.
(II)Some pliers are mallets.
(III)All pliers are bunkers.

**Ans**   ✗ 1. All the conclusions, I, II and III, follow

   ✗ 2. Either conclusion I or III follows

   ✓ 3. Only conclusion II follows

   ✗ 4. Only conclusion I follows

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868137** |
| Option 1 ID : | **387868532** |
| Option 2 ID : | **387868531** |
| Option 3 ID : | **387868530** |
| Option 4 ID : | **387868529** |
| Status : | **Answered** |
| Chosen Option : | **1** |

**Q.33** Six members of a family, Suvida, Toni, Jai, Vamika, Giridhar and Yadu are travelling together. Toni is the son of Jai, but Jai is not the mother of Toni. Suvida and Jai are a married couple. Giridhar is the brother of Jai. Vamika is the daughter of Suvida. Yadu is the brother of Toni. How is Giridhar related to Vamika?

**Ans**   ✗ 1. Father-in -law

   ✗ 2. Brother

   ✗ 3. Father

   ✓ 4. Father's brother

Question Type : **MCQ**
Question ID : **387868143**
Option 1 ID : **387868556**
Option 2 ID : **387868554**
Option 3 ID : **387868555**
Option 4 ID : **387868553**
Status : **Answered**
Chosen Option : **4**

**Q.34** Refer to the given letter, number, symbol series and answer the following question.

(Left) K G # X & 4 H 2 $ 7 P % 9 V C & 5 7 J * W ! (Right)

If all the numbers are dropped from the series and each letter is changed to the letter following it in the English alphabetical order, which of the following will be seventh from the left in the new series?

**Ans**   ✓ 1. T

   ✗ 2. I

   ✗ 3. &

   ✗ 4. Q

Question Type : **MCQ**
Question ID : **387868140**
Option 1 ID : **387868543**
Option 2 ID : **387868542**
Option 3 ID : **387868544**
Option 4 ID : **387868541**
Status : **Answered**
Chosen Option : **2**

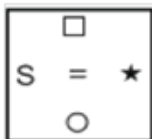**Q.35** Select the figure from among the given options that can replace the question mark (?) in the following series.
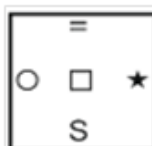
| ★ | ○ | S | = | ★ | |
|---|---|---|---|---|---|
| □  ○  = | S  =  ★ | ○  □  = | ★  ○  S | ○  =  □ | ? |
| S | □ | ★ | □ | S | |
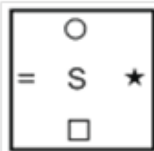
**Ans**

✗ 1.

```
     ○
 =   S   ★
     □
```

✗ 2.

```
     □
 S   =   ★
     ○
```

✔ 3.

```
     =
 S   □   ★
     ○
```

✗ 4.

```
     =
 ○   □   ★
     S
```

**Q.36** Eight members of a family, Anshu, Charan, Dinakar, Nayan, Lalit, Gopi, Rohit and Hriday, are sitting on a straight bench facing towards the north. Hriday is sitting at the fifth position from the left side. Anshu and Gopi are not the immediate neighbours of Lalit and Nayan. Nayan is sitting second to the left of Hriday and third to the left of Lalit. Charan is the immediate neighbour of Lalit, who is second to the right of Dinakar. Who is sitting at the second position from the left side?

**Ans**

✔ 1. Rohit

✗ 2. Hriday

✗ 3. Dinakar

✗ 4. Nyan

**Q.37** Refer to the given 4-letter words and answer the following question.

(left) LOCK STEM MARK POLE (right)

If in each of the given words, each letter is changed to the next letter in the English alphabetical order, how many words thus formed will have no vowel?

**Ans** ✗ 1. None

✗ 2. One

✗ 3. Two

✓ 4. Three

**Q.38** There are 81 students in a class. Himaja is 27th ranks ahead of Anvita. If Anvita's rank is 15th from the bottom, what is Himaja's rank from the top?

**Ans** ✗ 1. 37

✗ 2. 35

✗ 3. 38

✓ 4. 39

**Q.39** Six turtles, B, D, M, N, T and U, each of different ages, are kept in a Zoological Park. B and D are older than M and younger than N. M is older than only one turtle T. B is not as old as N. N is the second oldest turtle. Which turtle is the oldest among the six turtles?

**Ans** ✗ 1. B

✓ 2. U

✗ 3. T

✗ 4. D

**Q.40** In a certain code language, 'APRIL' is written as 'OFUMD' and 'FRONT' is written as 'WKROI'. How will 'RULES' be written in that language?

**Ans**
   ✗ 1. VHOXU

   ✗ 2. UROBV

   ✗ 3. PBIRO

   ✓ 4. VBORU

Question Type : **MCQ**
Question ID : **387868142**
Option 1 ID : **387868552**
Option 2 ID : **387868549**
Option 3 ID : **387868550**
Option 4 ID : **387868551**
Status : **Not Answered**
Chosen Option : **--**

Section : **Civil Engineering**

**Q.41** The modulus of section for a steel beam is computed by:

**Ans**

   ✗ 1. $\dfrac{\text{Maximum bending moment}}{\text{Reduced permissible shear stress in tension}}$

   ✗ 2.
   Maximum bending moment × Reduced permissible shear stress in tension

   ✓ 3. $\dfrac{\text{Maximum bending moment}}{\text{Reduced permissible bending stress in compression}}$

   ✗ 4.
   Maximum bending moment × Reduced permissible bending stress in compression

Question Type : **MCQ**
Question ID : **387868190**
Option 1 ID : **387868742**
Option 2 ID : **387868744**
Option 3 ID : **387868741**
Option 4 ID : **387868743**
Status : **Answered**
Chosen Option : **2**

**Q.42** If the quadrantal bearing of a line is S68°6'W, then what is the whole circle bearing of the line?

**Ans**

✗ 1. 22°6'

✗ 2. 112°6'

✗ 3. 292°6'

✔ 4. 248°6'

Question Type : **MCQ**

Question ID : **387868150**

Option 1 ID : **387868581**

Option 2 ID : **387868582**

Option 3 ID : **387868584**

Option 4 ID : **387868583**

Status : **Answered**

Chosen Option : **4**

**Q.43** Moment of inertia of a triangle about its centroid is given by:

(Where B = base width and H = height of the triangle)

**Ans**

✗ 1. $\dfrac{HB^3}{36}$

✗ 2. $\dfrac{BH^3}{12}$

✗ 3. $\dfrac{HB^3}{12}$

✔ 4. $\dfrac{BH^3}{36}$

Question Type : **MCQ**

Question ID : **387868153**

Option 1 ID : **387868596**

Option 2 ID : **387868593**

Option 3 ID : **387868595**

Option 4 ID : **387868594**

Status : **Answered**

Chosen Option : **4**

**Q.44** Air permeability apparatus test is used find the _____ of cement.

**Ans**
✔ 1. fineness
✘ 2. soundness
✘ 3. strength
✘ 4. consistency

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868157** |
| Option 1 ID : | **387868610** |
| Option 2 ID : | **387868611** |
| Option 3 ID : | **387868609** |
| Option 4 ID : | **387868612** |
| Status : | **Answered** |
| Chosen Option : | **1** |

---

**Q.45** In steel structure, the thickness of a flat lacing bar shall NOT be less than _____ of its effective length for single lacings and _____ of its effective length for double lacings.

**Ans**
✘ 1. one-tenth; one-twentieth
✘ 2. one-twentieth; one-thirtieth
✔ 3. one-fortieth; one-sixtieth
✘ 4. one-thirtieth; one-fiftieth

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868189** |
| Option 1 ID : | **387868737** |
| Option 2 ID : | **387868738** |
| Option 3 ID : | **387868740** |
| Option 4 ID : | **387868739** |
| Status : | **Answered** |
| Chosen Option : | **3** |

---

**Q.46** Which segment of the environment constitutes the realm of living organisms and their interactions?

**Ans**
✔ 1. Biosphere
✘ 2. Hydrosphere
✘ 3. Lithosphere
✘ 4. Atmosphere

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868195** |
| Option 1 ID : | **387868764** |
| Option 2 ID : | **387868763** |
| Option 3 ID : | **387868762** |
| Option 4 ID : | **387868761** |
| Status : | **Answered** |
| Chosen Option : | **4** |

**Q.47** _____ is the normal method adopted for separation of particles in a fine-grained mass.

**Ans**
✘ 1. Sieve analysis

✘ 2. Specific gravity test

✔ 3. Hydrometer analysis

✘ 4. Fall cone penetrometer

Question Type : **MCQ**
Question ID : **387868162**
Option 1 ID : **387868630**
Option 2 ID : **387868631**
Option 3 ID : **387868629**
Option 4 ID : **387868632**
Status : **Answered**
Chosen Option : **3**

**Q.48** All of the following are the methods of valuation of a building EXCEPT:

**Ans**
✔ 1. quantity survey method

✘ 2. cost-based method

✘ 3. rental method

✘ 4. profit-based method

Question Type : **MCQ**
Question ID : **387868193**
Option 1 ID : **387868756**
Option 2 ID : **387868754**
Option 3 ID : **387868753**
Option 4 ID : **387868755**
Status : **Answered**
Chosen Option : **4**

**Q.49** IRC (Indian Roads Congress) has classified the roads in India into national highways, state highways, major district roads, other district roads and village roads under _____.

**Ans**
✘ 1. both Lucknow and Bombay road plans

✔ 2. Nagpur road plan

✘ 3. Lucknow road plan

✘ 4. Bombay road plan

Question Type : **MCQ**
Question ID : **387868180**
Option 1 ID : **387868704**
Option 2 ID : **387868702**
Option 3 ID : **387868701**
Option 4 ID : **387868703**
Status : **Answered**
Chosen Option : **2**

**Q.50** The following are the acceptance criteria for flexural strength of concrete. Thus, the concrete complies with the specified flexural strength.

Criterion-1: The mean strength determined from any group of four consecutive test results exceeds the specified characteristic strength by at least 0.3 N/mm$^2$.

Criterion-2: The strength determined from any test result is not less than the specified characteristic strength of 0.3 N/mm$^2$.

Which of the above two criteria is correct?

**Ans** ✔ 1. Both the criteria are correct.

✘ 2. Both the criteria are incorrect.

✘ 3. Criterion-1 is incorrect and criterion-2 is correct.

✘ 4. Criterion-1 is correct and criterion-2 is incorrect.

Question Type : **MCQ**
Question ID : **387868161**
Option 1 ID : **387868627**
Option 2 ID : **387868628**
Option 3 ID : **387868626**
Option 4 ID : **387868625**
Status : **Answered**
Chosen Option : **2**

**Q.51** A rectangular beam which is 100 mm wide and 250 mm deep is subjected to a maximum shear force of 50 kN. What is the maximum shear stress developed?

**Ans** ✘ 1. 2 N/mm$^2$

✘ 2. 4 N/mm$^2$

✔ 3. 3 N/mm$^2$

✘ 4. 5 N/mm$^2$

Question Type : **MCQ**
Question ID : **387868155**
Option 1 ID : **387868601**
Option 2 ID : **387868603**
Option 3 ID : **387868602**
Option 4 ID : **387868604**
Status : **Answered**
Chosen Option : **3**

**Q.52** According to IS 456-2000, the development length of each bar of bundled bars shall be that for the individual bar, increased by 20% for:

**Ans**   ✗ 1. two bars in contact

   ✗ 2. four bars in contact

   ✔ 3. three bars in contact

   ✗ 4. five bars in contact

Question Type : **MCQ**

Question ID : **387868188**
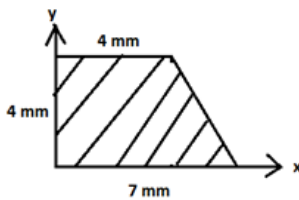
Option 1 ID : **387868733**

Option 2 ID : **387868735**

Option 3 ID : **387868734**

Option 4 ID : **387868736**

Status : **Answered**

Chosen Option : **2**

**Q.53** In the following figure, centroids of the shaded area from the reference axis are:



**Ans**

   ✗ 1. $\overline{\overline{X}} = \dfrac{35}{11}$ mm and $\overline{\overline{Y}} = \dfrac{25}{11}$ mm

   ✔ 2. $\overline{\overline{X}} = \dfrac{31}{11}$ mm and $\overline{\overline{Y}} = \dfrac{20}{11}$ mm

   ✗ 3. $\overline{\overline{X}} = \dfrac{31}{21}$ mm and $\overline{\overline{Y}} = \dfrac{20}{21}$ mm

   ✗ 4. $\overline{\overline{X}} = \dfrac{41}{11}$ mm and $\overline{\overline{Y}} = \dfrac{30}{11}$ mm

Question Type : **MCQ**

Question ID : **387868203**

Option 1 ID : **387868795**

Option 2 ID : **387868793**

Option 3 ID : **387868796**

Option 4 ID : **387868794**

Status : **Answered**

Chosen Option : **2**

**Q.54** The bricks are burnt in a kiln, which is circular in shape, constructed above the ground and maintained operational even during rainy season. Such a kiln is called:

**Ans**
- ✗ 1. tunnel kiln
- ✗ 2. Bull's trench kiln
- ✔ 3. Haffman's kiln
- ✗ 4. intermittent kiln

Question Type : **MCQ**
Question ID : **387868146**
Option 1 ID : **387868566**
Option 2 ID : **387868565**
Option 3 ID : **387868567**
Option 4 ID : **387868568**
Status : **Answered**
Chosen Option : **3**

**Q.55** Sub-tense bar is used to measure:

**Ans**
- ✔ 1. horizontal distance
- ✗ 2. area
- ✗ 3. angles
- ✗ 4. elevation

Question Type : **MCQ**
Question ID : **387868152**
Option 1 ID : **387868590**
Option 2 ID : **387868589**
Option 3 ID : **387868592**
Option 4 ID : **387868591**
Status : **Answered**
Chosen Option : **3**

**Q.56** Select the INCORRECT statement with respect to the hydraulic gradient line when the fluid is flowing in the pipe.

**Ans**
- ✗ 1.
  The hydraulic gradient line is always below the total energy gradient line.
- ✗ 2.
  The hydraulic gradient line may rise or fall, depending on changes in the pressure.
- ✔ 3.
  The hydraulic gradient line always drops in the direction of the flow because of loss of head.
- ✗ 4.
  The slope of the hydraulic gradient line is equal to the slope of the energy gradient line for a pipe of uniform cross-section.

Question Type : **MCQ**
Question ID : **387868169**
Option 1 ID : **387868658**
Option 2 ID : **387868660**
Option 3 ID : **387868657**
Option 4 ID : **387868659**
Status : **Answered**

**Q.57** Bioremediation method of solid waste management involves:

Ans  ✗ 1. earthworms

✗ 2. anaerobic conditions

✔ 3. bacteria and fungi

✗ 4. combustion

**Q.58** Which of the following techniques used for scheduling and controlling a construction project is event oriented?

Ans  ✗ 1. Bar chart method

✗ 2. Critical path method

✗ 3. Project management system

✔ 4. Program evaluation and review technique

**Q.59** The fixed end moments at A and B for the simply supported beam shown in the following figure are:
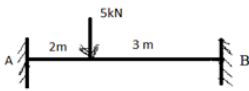


Ans  ✗ 1. $MF_{AB} = -2.5$ kNm and $MF_{BA} = -3.6$ kNm

✗ 2. $MF_{AB} = 5.5$ kNm and $MF_{BA} = 3.6$ kNm

✗ 3. $MF_{AB} = 6.5$ kNm and $MF_{BA} = 1.6$ kNm

✔ 4. $MF_{AB} = -3.6$ kNm and $MF_{BA} = 2.4$ kNm

**Q.60** IS 456-2000 suggests that the maximum size of coarse aggregate to be used in plain cement concrete and reinforced cement concrete recommended should NOT be less than:

**Ans** ✗ 1.

one-fifth of the maximum dimension of the reinforced concrete member

✓ 2.

one-fourth of the minimum dimension of the concrete member

✗ 3. the maximum clear spacing between reinforced bars

✗ 4.

one-fourth of the maximum dimension of the concrete member

Question Type : **MCQ**
Question ID : **387868158**
Option 1 ID : **387868615**
Option 2 ID : **387868613**
Option 3 ID : **387868616**
Option 4 ID : **387868614**
Status : **Answered**
Chosen Option : **1**

**Q.61** The relationship between Young's modulus (*E*), modulus of rigidity (*C*) and bulk modulus (*K*) is given by:

**Ans**

✗ 1. $E = \dfrac{C + 3K}{9KC}$

✗ 2. $E = \dfrac{C + 9K}{3KC}$

✓ 3. $E = \dfrac{9KC}{C + 3K}$

✗ 4. $E = \dfrac{3KC}{C + 9K}$

Question Type : **MCQ**
Question ID : **387868156**
Option 1 ID : **387868608**
Option 2 ID : **387868607**
Option 3 ID : **387868606**
Option 4 ID : **387868605**
Status : **Answered**
Chosen Option : **3**

**Q.62** In which type of building estimate method is four times the thickness of the wall subtracted from the total perimeter to obtain the centre line length?

**Ans**
- ✗ 1. Straight line method
- ✗ 2. Long wall short wall method
- ✓ 3. Crossing method
- ✗ 4. Centre line method

Question Type : **MCQ**
Question ID : **387868194**
Option 1 ID : **387868760**
Option 2 ID : **387868759**
Option 3 ID : **387868758**
Option 4 ID : **387868757**
Status : **Answered**
Chosen Option : **3**

**Q.63** In levelling, the process of measuring the difference in elevation of two points, regardless of the horizontal positions of the points with respect to each other, is called:

**Ans**
- ✗ 1. reciprocal levelling
- ✓ 2. differential levelling
- ✗ 3. cross-sectioning
- ✗ 4. precise levelling

Question Type : **MCQ**
Question ID : **387868151**
Option 1 ID : **387868587**
Option 2 ID : **387868586**
Option 3 ID : **387868588**
Option 4 ID : **387868585**
Status : **Answered**
Chosen Option : **2**

**Q.64** Which type of survey chain is 100 feet long and consists of 100 links, each link being 1 foot long?

**Ans**
- ✗ 1. Gunter's chain
- ✓ 2. Engineer's chain
- ✗ 3. Revenue chain
- ✗ 4. Metric chain

Question Type : **MCQ**
Question ID : **387868149**
Option 1 ID : **387868578**
Option 2 ID : **387868579**
Option 3 ID : **387868580**
Option 4 ID : **387868577**
Status : **Answered**
Chosen Option : **2**

**Q.65** The forces in a 'Tripod carrying a camera' is an example of:

Ans

✗ 1. coplanar non-concurrent force system

✗ 2. coplanar concurrent force system

✗ 3. non-coplanar non-concurrent force system

✔ 4. non-coplanar concurrent force system

Question Type : **MCQ**
Question ID : **387868201**
Option 1 ID : **387868786**
Option 2 ID : **387868785**
Option 3 ID : **387868788**
Option 4 ID : **387868787**
Status : **Answered**
Chosen Option : **3**

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**Q.66** Which of the following is NOT considered to be an environmental management tool?

Ans

✗ 1. Resources assessment

✗ 2. Life cycle assessment

✗ 3. Environmental design

✔ 4. Poverty assessment

Question Type : **MCQ**
Question ID : **387868200**
Option 1 ID : **387868783**
Option 2 ID : **387868782**
Option 3 ID : **387868784**
Option 4 ID : **387868781**
Status : **Answered**
Chosen Option : **4**

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**Q.67** What are the width of a broad-gauge railway track and the length of rail in broad gauge in Indian railways?

Ans

✗ 1. Width = 1000 mm and length = 8.2 m

✗ 2. Width = 1524 mm and length = 15 m

✗ 3. Width = 1067 mm and length = 10 m

✔ 4. Width = 1676 mm and length = 13 m

Question Type : **MCQ**
Question ID : **387868182**
Option 1 ID : **387868709**
Option 2 ID : **387868711**
Option 3 ID : **387868712**
Option 4 ID : **387868710**
Status : **Answered**
Chosen Option : **4**

**Q.68** All of the following are the features of a site layout plan EXCEPT:

**Ans** ✔ 1. cost of property

✘ 2. north arrow

✘ 3. easements

✘ 4. property line and setback

Question Type : **MCQ**
Question ID : **387868178**
Option 1 ID : **387868696**
Option 2 ID : **387868694**
Option 3 ID : **387868695**
Option 4 ID : **387868693**
Status : **Answered**
Chosen Option : **3**

**Q.69** Which of the following is NOT an assumption made in limit state of collapse in flexure?

**Ans** ✘ 1.
Plane sections normal to the axis remain plane after bending.

✘ 2.
Maximum strain in concrete at the outermost compression fibre is taken as 0.0035 in bending.

✘ 3. The tensile strength of concrete is ignored.

✔ 4. The compressive strength of concrete is ignored.

Question Type : **MCQ**
Question ID : **387868187**
Option 1 ID : **387868729**
Option 2 ID : **387868730**
Option 3 ID : **387868731**
Option 4 ID : **387868732**
Status : **Answered**
Chosen Option : **4**

**Q.70** Which of the following is NOT the main pollutant of air?

**Ans** ✘ 1. Nitric oxide (NO)

✘ 2. Carbon dioxide ($CO_2$)

✔ 3. Oxygen ($O_2$)

✘ 4. Sulphur dioxide ($SO_2$)

Question Type : **MCQ**
Question ID : **387868196**
Option 1 ID : **387868766**
Option 2 ID : **387868765**
Option 3 ID : **387868767**
Option 4 ID : **387868768**
Status : **Answered**

**Q.71** Which of the following is the correct way of providing specification for damp-proof course?

**Ans** ✗ 1.
Damp-proof course shall be of 25 mm thick cement concrete of 1 : 1.5 : 3 without standard waterproofing material

✗ 2.
Damp-proof course shall be of 35 cm thick reinforced cement concrete of 1 : 2 : 4 with standard waterproofing material

✔ 3.
Damp-proof course shall be of 25 mm thick cement and fine aggregate mix of 1 : 4 with standard waterproofing material

✗ 4.
Damp-proof course shall be of 25 cm thick cement concrete of 1 : 2 : 4

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868191** |
| Option 1 ID : | **387868747** |
| Option 2 ID : | **387868748** |
| Option 3 ID : | **387868746** |
| Option 4 ID : | **387868745** |
| Status : | **Answered** |
| Chosen Option : | **4** |

**Q.72** According to IS 456-2000, the design of concrete mix should be based on all of the following, EXCEPT:

**Ans** ✗ 1. durability

✗ 2. quality control

✔ 3. cost

✗ 4. workability

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868160** |
| Option 1 ID : | **387868622** |
| Option 2 ID : | **387868623** |
| Option 3 ID : | **387868624** |
| Option 4 ID : | **387868621** |
| Status : | **Answered** |
| Chosen Option : | **3** |

**Q.73** The column shown in the following figure is subjected to loading 'P' with eccentricity 'e'. What type of direct and bending stress does the representation shown depict?
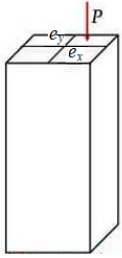


Ans
  ✗ 1.  Axial compression with uniaxial bending

  ✔ 2.  Axial compression with biaxial bending

  ✗ 3.  Axial compression with triaxial bending

  ✗ 4.  Axial compression

Question Type : **MCQ**
Question ID : **387868171**
Option 1 ID : **387868666**
Option 2 ID : **387868667**
Option 3 ID : **387868668**
Option 4 ID : **387868665**
Status : **Answered**
Chosen Option : **2**

**Q.74** In which of the following types of contract is the quantity of work NOT mentioned and only the rate is mentioned?

Ans
  ✗ 1.  Item rate contract

  ✗ 2.  Lump sum contract

  ✔ 3.  Piece-work agreement

  ✗ 4.  Work order agreement

Question Type : **MCQ**
Question ID : **387868179**
Option 1 ID : **387868699**
Option 2 ID : **387868700**
Option 3 ID : **387868697**
Option 4 ID : **387868698**
Status : **Answered**
Chosen Option : **2**

**Q.75** In a differential pulley block, a load of 1600 N is raised by an effort of 100 N. The numbers of teeth on the larger and smaller blocks are 12 and 11, respectively. What is the efficiency of the machine?

**Ans**

✗ 1. 62.67%

✗ 2. 56.67%

✗ 3. 72.67%

✔ 4. 66.67%

Question Type : **MCQ**
Question ID : **387868204**
Option 1 ID : **387868798**
Option 2 ID : **387868797**
Option 3 ID : **387868800**
Option 4 ID : **387868799**
Status : **Answered**
Chosen Option : **2**

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**Q.76** A rectangular plane surface is 3 m wide and 4 m deep. It lies in vertical plane in water as shown in the following figure.

Determine the total pressure.(Take g = 10 m/sec$^2$.)
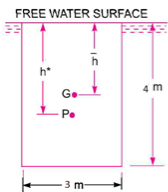


**Ans**

✗ 1. 140 kN

✗ 2. 160 kN

✔ 3. 240 kN

✗ 4. 200 kN

Question Type : **MCQ**
Question ID : **387868168**
Option 1 ID : **387868653**
Option 2 ID : **387868654**
Option 3 ID : **387868656**
Option 4 ID : **387868655**
Status : **Answered**
Chosen Option : **3**

**Q.77** The coefficient of permeability of an unsaturated soil is determined by:

**Ans**
✔ 1. capillarity-permeability test

✘ 2. variable head permeability test

✘ 3. pumping test

✘ 4. constant head permeability test

Question Type : **MCQ**
Question ID : **387868163**
Option 1 ID : **387868635**
Option 2 ID : **387868636**
Option 3 ID : **387868633**
Option 4 ID : **387868634**
Status : **Answered**
Chosen Option : **3**

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**Q.78** The overall efficiency of a pump is calculated by:

**Ans**
✘ 1.
Overall efficiency = Mechanical efficiency + Hydraulic efficiency + Manometric efficiency

✘ 2.
Overall efficiency = Mechanical efficiency + Hydraulic efficiency + Volumetric efficiency

✔ 3.
Overall efficiency = Mechanical efficiency × Manometric efficiency × Volumetric efficiency

✘ 4.
Overall efficiency = (Mechanical efficiency + Hydraulic efficiency + Volumetric efficiency) ÷ 3

Question Type : **MCQ**
Question ID : **387868167**
Option 1 ID : **387868652**
Option 2 ID : **387868649**
Option 3 ID : **387868650**
Option 4 ID : **387868651**
Status : **Answered**
Chosen Option : **3**

---

**Q.79** A reinforced concrete beam of 250 mm width and 400 mm effective depth is subjected to a shear force of 95 kN at the support. What is the nominal shear stress in the beam?

**Ans**
✘ 1. $0.75 \text{ N/mm}^2$

✔ 2. $0.95 \text{ N/mm}^2$

✘ 3. $0.85 \text{ N/mm}^2$

✘ 4. $1 \text{ N/mm}^2$

Question Type : **MCQ**
Question ID : **387868185**
Option 1 ID : **387868721**
Option 2 ID : **387868723**
Option 3 ID : **387868722**

**Q.80** According to Vesic, what type of bearing capacity failure occurs when a strip footing rests on the surface of dense sand or stiff clay, for which the failure surfaces extend to the ground surface?

**Ans** ✔ 1. General shear failure

✘ 2. Local shear failure

✘ 3. Punching shear failure

✘ 4. Both punching and local shear failure

Question Type : **MCQ**
Question ID : **387868164**
Option 1 ID : **387868638**
Option 2 ID : **387868639**
Option 3 ID : **387868637**
Option 4 ID : **387868640**
Status : **Answered**
Chosen Option : **4**

**Q.81** What is the maximum bending moment for a simply supported beam of length 10 m carrying a uniformly distributed load of 16 N/m?

**Ans** ✘ 1. 800 Nm

✘ 2. 600 Nm

✘ 3. 400 Nm

✔ 4. 200 Nm

Question Type : **MCQ**
Question ID : **387868154**
Option 1 ID : **387868600**
Option 2 ID : **387868599**
Option 3 ID : **387868598**
Option 4 ID : **387868597**
Status : **Answered**
Chosen Option : **4**

**Q.82** Which of the following statements related to hydraulic jump are correct?

1. There occurs a transformation of super-critical flow into sub-critical flow.

2. The flow is uniform and pressure distribution is due to hydrostatic force before and after the jump.

3. There occurs a loss of energy due to eddy formation and turbulence.

**Ans** ✘ 1. 1 and 2 only

✘ 2. 1 and 3 only

✔ 3. 1, 2 and 3

✘ 4. 2 and 3 only

Question Type : **MCQ**
Question ID : **387868170**
Option 1 ID : **387868661**
Option 2 ID : **387868663**
Option 3 ID : **387868664**
Status : **Answered**

**Q.83** Vee-Bee consistometer test is used to measure the _____.

Ans  ✗ 1. final setting time of concrete

✗ 2. soundness of cement

✔ 3. workability of concrete

✗ 4. strength of concrete

Question Type : **MCQ**
Question ID : **387868159**
Option 1 ID : **387868620**
Option 2 ID : **387868617**
Option 3 ID : **387868618**
Option 4 ID : **387868619**
Status : **Answered**
Chosen Option : **3**

**Q.84** Which theory states that the creep is developed due to the impact of wheels at the rail end ahead of a joint?

Ans  ✗ 1. Friction theory

✔ 2. Percussion theory

✗ 3. Wave motion theory

✗ 4. Drag theory

Question Type : **MCQ**
Question ID : **387868183**
Option 1 ID : **387868715**
Option 2 ID : **387868716**
Option 3 ID : **387868713**
Option 4 ID : **387868714**
Status : **Answered**
Chosen Option : **4**

**Q.85** For stabilisation of heavy clays, which of the following methods is generally most effective?

Ans  ✔ 1. Electrical stabilisation

✗ 2. Bituminous stabilisation

✗ 3. Mechanical stabilisation

✗ 4. Chemical stabilisation

Question Type : **MCQ**
Question ID : **387868165**
Option 1 ID : **387868644**
Option 2 ID : **387868642**
Option 3 ID : **387868641**
Option 4 ID : **387868643**
Status : **Answered**
Chosen Option : **3**

**Q.86** Detailed specification for centering for roofing consists of:

Ans
✔ 1. Strutting – Form work – Centering – Measurements

✘ 2. Form work – Centering – refilling – Measurements

✘ 3. Form work – Laying – Centering – Measurements

✘ 4. Strutting – Form work – Rolling – Measurements

Question Type : **MCQ**
Question ID : **387868192**
Option 1 ID : **387868750**
Option 2 ID : **387868751**
Option 3 ID : **387868749**
Option 4 ID : **387868752**
Status : **Answered**
Chosen Option : **1**

**Q.87** _____ means the preparation in advance of a list of different activities and their order of sequence to carry out any work as per the planned programme.

Ans
✘ 1. Programming

✘ 2. Tendering

✘ 3. Planning

✔ 4. Scheduling

Question Type : **MCQ**
Question ID : **387868177**
Option 1 ID : **387868692**
Option 2 ID : **387868690**
Option 3 ID : **387868689**
Option 4 ID : **387868691**
Status : **Answered**
Chosen Option : **3**

**Q.88** The design gradient which is used to design a road in vertical alignment is called:

Ans
✘ 1. limiting gradient

✘ 2. exceptional gradient

✘ 3. minimum gradient

✔ 4. ruling gradient

Question Type : **MCQ**
Question ID : **387868181**
Option 1 ID : **387868706**
Option 2 ID : **387868708**
Option 3 ID : **387868705**
Option 4 ID : **387868707**
Status : **Answered**
Chosen Option : **2**

**Q.89** The effective length of a compression member of unsupported length 'L', recommended by IS 456-2000 which is effectively held in position at both the ends, restrained against rotation at one end is:

**Ans**
✔ 1. 0.80 L
✘ 2. 0.65 L
✘ 3. 1.5 L
✘ 4. 2.0 L

Question Type : **MCQ**
Question ID : **387868186**
Option 1 ID : **387868726**
Option 2 ID : **387868725**
Option 3 ID : **387868727**
Option 4 ID : **387868728**
Status : **Answered**
Chosen Option : **1**

**Q.90** Match the following road failure types with distress types.

| Failure Type | Distress Type |
|---|---|
| 1. Cracking | A. Rutting and shoving |
| 2. Deformation | B. Segregation and bleeding |
| 3. Deterioration | C. Longitudinal fatigue |
| 4. Seal coats | D. Potholes and pumping |

**Ans**
✘ 1. 1-C, 2-D, 3-A, 4-B
✘ 2. 1-C, 2-A, 3-B, 4-D
✔ 3. 1-C, 2-A, 3-D, 4-B
✘ 4. 1-B, 2-A, 3-D, 4-C

Question Type : **MCQ**
Question ID : **387868184**
Option 1 ID : **387868718**
Option 2 ID : **387868720**
Option 3 ID : **387868719**
Option 4 ID : **387868717**
Status : **Answered**
Chosen Option : **4**

**Q.91** Which form of energy is stored in biomass energy?

**Ans** ✗ 1. Geothermal energy

✗ 2. Wind energy

✗ 3. Hydro energy

✔ 4. Solar energy

Question Type : **MCQ**
Question ID : **387868198**
Option 1 ID : **387868774**
Option 2 ID : **387868776**
Option 3 ID : **387868775**
Option 4 ID : **387868773**
Status : **Answered**
Chosen Option : **4**

**Q.92** In building surface finish, the following terms are used.

1. Plastering: It is the term used for internal works of building.

2. Rendering: It is the term used for external work outside of the building.

Which of the above two statements is correct?

**Ans** ✔ 1. Both the statements are correct.

✗ 2. Statement 1 is incorrect and Statement 2 is correct.

✗ 3. Statement 1 is correct and Statement 2 is incorrect.

✗ 4. Both the statements are incorrect.

Question Type : **MCQ**
Question ID : **387868147**
Option 1 ID : **387868571**
Option 2 ID : **387868570**
Option 3 ID : **387868569**
Option 4 ID : **387868572**
Status : **Answered**
Chosen Option : **2**

**Q.93** In a door opening, the external part of a vertical wall face of the opening, which supports the frame at right angles to the wall face, is called:

**Ans**
✗ 1. mullion

✗ 2. reveal

✗ 3. threshold

✓ 4. jamb

Question Type : **MCQ**
Question ID : **387868148**
Option 1 ID : **387868574**
Option 2 ID : **387868575**
Option 3 ID : **387868573**
Option 4 ID : **387868576**
Status : **Answered**
Chosen Option : **1**

**Q.94** Which of the following statements is NOT true in case of a fixed beam?

**Ans**
✗ 1. Deflection is zero at the ends.

✓ 2. End moments are zero at the ends.

✗ 3. Both slope and deflections are zero at the ends.

✗ 4. Slope is zero at the ends.

Question Type : **MCQ**
Question ID : **387868175**
Option 1 ID : **387868682**
Option 2 ID : **387868683**
Option 3 ID : **387868684**
Option 4 ID : **387868681**
Status : **Answered**
Chosen Option : **2**

**Q.95** The maximum value of frictional force, which comes into play when a body just begins to slide over the surface of the other body, is known as:

**Ans**
✗ 1. normal reaction

✗ 2. angle of friction

✗ 3. coefficient of friction

✓ 4. limiting friction

Question Type : **MCQ**
Question ID : **387868202**
Option 1 ID : **387868790**
Option 2 ID : **387868789**
Option 3 ID : **387868791**
Option 4 ID : **387868792**
Status : **Answered**
Chosen Option : **4**

**Q.96** A flow in an open channel is said to be subcritical when:

Ans ✗ 1. Mach's number is greater than 1

✗ 2. Mach's number is less than 1

✗ 3. Froude's number is greater than 1

✔ 4. Froude's number is less than 1

Question Type : **MCQ**
Question ID : **387868166**
Option 1 ID : **387868647**
Option 2 ID : **387868648**
Option 3 ID : **387868645**
Option 4 ID : **387868646**
Status : **Answered**
Chosen Option : **4**

**Q.97** All of the following methods are the measures to control water pollution, EXCEPT:

Ans ✗ 1. sewage treatment

✗ 2. financial support

✔ 3. deforestation

✗ 4. soil conservation

Question Type : **MCQ**
Question ID : **387868197**
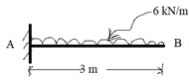Option 1 ID : **387868769**
Option 2 ID : **387868771**
Option 3 ID : **387868772**
Option 4 ID : **387868770**
Status : **Not Answered**
Chosen Option : **--**

**Q.98** Determine the rotation and the deflection at the free end of the cantilever beam subjected to uniformly distributed load of 6kN/m shown in the following figure, using the moment area method. (Where E = Young's modulus of elasticity and I = moment of inertia)



**Ans** ✗ 1.

$$\text{Rotation at free end} = \frac{81}{EI}, \text{clockwise and deflection} = \frac{245}{EI} \text{ downward}$$

✔ 2.

$$\text{Rotation at free end} = \frac{27}{EI}, \text{clockwise and deflection} = \frac{60.75}{EI} \text{ downward}$$

✗ 3.

$$\text{Rotation at free end} = \frac{47}{EI}, \text{clockwise and deflection} = \frac{160.75}{EI} \text{ upward}$$

✗ 4.

$$\text{Rotation at free end} = \frac{27}{EI}, \text{anti} - \text{clockwise and deflection} = \frac{60.75}{EI} \text{ upward}$$

**Q.99** Which of the following rocks belongs to the category of igneous rocks?

**Ans** ✗ 1. Lignite

✔ 2. Dolerite

✗ 3. Quartzite

✗ 4. Gneisses

**Q.100** Identify the statically determinate truss from the following.
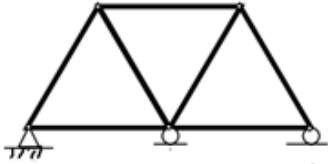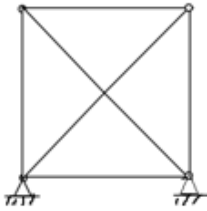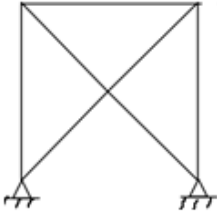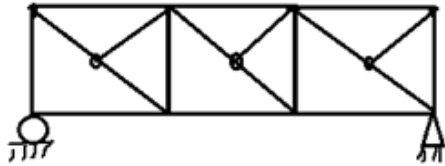
**Ans**

❌ 1. 

❌ 2. 

❌ 3. 

✔️ 4.

| Participant ID | 123 |
|---|---|
| Participant Name | xyz |
| Test Center Name | iON Digital Zone IDZ Powai |
| Test Date | 06/08/2022 |
| Test Time | 4:00 PM - 5:30 PM |
| Subject | Cluster 1 |

Section : **English**

**Q.1** **Select the most appropriate option to fill in the blank.**

**He turned a deaf ear _____ the advice of his teacher.**

Ans ✔ 1. to

✘ 2. in

✘ 3. on

✘ 4. at

Question Type : **MCQ**

Question ID : **387868206**

Option 1 ID : **387868807**

Option 2 ID : **387868808**

Option 3 ID : **387868805**

Option 4 ID : **387868806**

Status : **Answered**

Chosen Option : **3**

**Q.2** **Select the most appropriate option to fill in the blank.**

**A few friends _____to help me.**

Ans ✘ 1. offer

✘ 2. are offered

✘ 3. have offer

✔ 4. have offered

Question Type : **MCQ**

Question ID : **387868207**

Option 1 ID : **387868809**

Option 2 ID : **387868811**

Option 3 ID : **387868810**

Option 4 ID : **387868812**

Status : **Answered**

**Q.3** Select the most appropriate ANTONYM of the given word.

**Thrive**

Ans ✓ 1. Decline

✗ 2. Flourish

✗ 3. Prosper

✗ 4. Destroy

Question Type : **MCQ**
Question ID : **387868208**
Option 1 ID : **387868814**
Option 2 ID : **387868813**
Option 3 ID : **387868815**
Option 4 ID : **387868816**
Status : **Answered**
Chosen Option : **3**

**Q.4** Select the most appropriate meaning of the given idiom.

**Fall prey to**

Ans ✗ 1. Kneel down in prayer

✗ 2. Sink in shame

✗ 3. Feel insulted

✓ 4. Become a victim of

Question Type : **MCQ**
Question ID : **387868210**
Option 1 ID : **387868821**
Option 2 ID : **387868823**
Option 3 ID : **387868824**
Option 4 ID : **387868822**
Status : **Answered**
Chosen Option : **2**

**Q.5** Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A.This is so because both her parents are doctors who offer free services to the poor.
B.Aanya is concerned about the health facilities available to the masses in our country.
C.To achieve her goal, she is studying diligently for the entrance exam.
D.It is therefore, natural for her to aspire to be a doctor.

Ans ✓ 1. BADC

✗ 2. BDCA

✗ 3. DCBA

✗ 4. CDAB

Question Type : **MCQ**
Question ID : **387868211**
Option 1 ID : **387868827**
Option 2 ID : **387868825**
Option 3 ID : **387868826**
Option 4 ID : **387868828**
Status : **Answered**
Chosen Option : **2**

**Q.6** Select the most appropriate synonym of the given word.

**Enhance**

Ans ✗ 1. Encourage

✗ 2. Entice

✗ 3. Endure

✓ 4. Enrich

Question Type : **MCQ**

Question ID : **387868209**

Option 1 ID : **387868818**

Option 2 ID : **387868817**

Option 3 ID : **387868820**

Option 4 ID : **387868819**

Status : **Answered**

Chosen Option : **1**

**Q.7** Select the most appropriate option to fill in the blank.

**He is _____ than his cousin.**

Ans ✗ 1. more cleverer

✗ 2. cleverest

✗ 3. clever

✓ 4. cleverer

Question Type : **MCQ**

Question ID : **387868205**

Option 1 ID : **387868803**

Option 2 ID : **387868804**

Option 3 ID : **387868801**

Option 4 ID : **387868802**

Status : **Answered**

Chosen Option : **3**

**Comprehension:**

Read the given passage and answer the questions that follow.

Jesse Owens was a track and field star. His most famous moment came in the 1936 Olympics when he won four gold medals – much to the annoyance of Adolf Hitler and the Nazi party who hoped the Olympics would be a showcase for Aryan supremacy. In his later life, Jesse Owens became a goodwill ambassador for America and athletics.

Jesse Owens was born in Alabama and the family moved to the Granville section of Cleveland. His early life was marked by poverty, and he was forced to take many menial jobs such as delivering goods and working in a shoe repair shop. However, he was able to develop his passion for running and athletics; from an early age, he was identified as having great potential talent.

Jesse Owens rose to national prominence in 1933, when he equalled the world record (9.4 seconds) for the 100 yard dash. One of his great athletic feats occurred in 1935; during one particular track meet, he broke three world records. This included the long jump (Owen's record stood for 25 years), 220 yards and 220 yards hurdles. He also equalled the record for 100 yards. Jesse Owen's finest moment came in the 1936 Berlin Olympics. He won Olympic gold in the 100m, long jump, 200m and 4*100 metres relay. (An achievement not matched until Carl Lewis in 1984). It was a convincing rebuttal to the Nazis' hopes of displaying 'Aryan superiority'. Hitler gave medals to German athletes on the first day, but, after Owen's victories, decided not to give any more medals.

**SubQuestion No : 8**

**Q.8  The word 'rebuttal' means:**

**Ans**   ✘ 1. prominence

         ✔ 2. refutation

         ✘ 3. approval

         ✘ 4. annoyance

Question Type : **MCQ**

Question ID : **387868215**

Option 1 ID : **387868838**

Option 2 ID : **387868837**

Option 3 ID : **387868840**

Option 4 ID : **387868839**

Status : **Answered**

Chosen Option : **4**

**Comprehension:**

Read the given passage and answer the questions that follow.

Jesse Owens was a track and field star. His most famous moment came in the 1936 Olympics when he won four gold medals – much to the annoyance of Adolf Hitler and the Nazi party who hoped the Olympics would be a showcase for Aryan supremacy. In his later life, Jesse Owens became a goodwill ambassador for America and athletics.

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**SubQuestion No : 9**

**Q.9  Why were the 1936 Olympic games special for Owens?**

Ans    ✗ 1. He broke three world records.

✗ 2. He equalled the world record for the 100 yard dash.

✓ 3. He won four gold medals.

✗ 4. His record remains unbroken even today.

|  |  |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868214** |
| Option 1 ID : | **387868835** |
| Option 2 ID : | **387868833** |
| Option 3 ID : | **387868834** |
| Option 4 ID : | **387868836** |
| Status : | **Answered** |
| Chosen Option : | **3** |

**Comprehension:**

Read the given passage and answer the questions that follow.

Jesse Owens was a track and field star. His most famous moment came in the 1936 Olympics when he won four gold medals – much to the annoyance of Adolf Hitler and the Nazi party who hoped the Olympics would be a showcase for Aryan supremacy. In his later life, Jesse Owens became a goodwill ambassador for America and athletics.

Jesse Owens was born in Alabama and the family moved to the Granville section of Cleveland. His early life was marked by poverty, and he was forced to take many menial jobs such as delivering goods and working in a shoe repair shop. However, he was able to develop his passion for running and athletics; from an early age, he was identified as having great potential talent.

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**SubQuestion No : 10**

**Q.10** **Why was Hitler annoyed at Jesse Owens' victory?**

Ans    ✅ 1. Hitler had failed to establish Aryan supremacy.

   ❌ 2. German athletes had won few events only.

   ❌ 3. Owens was a goodwill ambassador for America.

   ❌ 4. German athletes were humiliated by Owens.

Question Type : **MCQ**
Question ID : **387868213**
Option 1 ID : **387868831**
Option 2 ID : **387868832**
Option 3 ID : **387868830**
Option 4 ID : **387868829**
Status : **Answered**
Chosen Option : **1**

Section : **Marathi**

**Q.11** **'येथे पक्षी घरटे बांधत आहे.' या वाक्याचा काळ ओळखा.**

Ans    ❌ 1. साधा भूतकाळ

   ✅ 2. अपूर्ण वर्तमानकाळ

   ❌ 3. साधा वर्तमानकाळ

   ❌ 4. पूर्ण भूतकाळ

Question Type : **MCQ**
Question ID : **387868218**
Option 1 ID : **387868851**
Option 2 ID : **387868850**
Option 3 ID : **387868849**
Option 4 ID : **387868852**
Status : **Answered**
Chosen Option : **2**

**Q.12** 'दुसऱ्याच्या वैभवाचा आपल्याला उपयोग नसतो'. अशा अर्थाची म्हण सांगा.

Ans    ✗ 1. विशी विद्या तिशी धन

      ✗ 2. सरड्याची धाव कुंपणापर्यंत

      ✔ 3. लंकेत सोन्याच्या विटा

      ✗ 4. रात्र थोडी सोंगे फार

Question Type : **MCQ**

Question ID : **387868221**

Option 1 ID : **387868863**

Option 2 ID : **387868864**

Option 3 ID : **387868862**

Option 4 ID : **387868861**

Status : **Answered**

Chosen Option : **3**

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**Q.13** 'स्वावलंबी' या शब्दाचा विरुद्धार्थी शब्द शोधा.

Ans    ✗ 1. स्वच्छंदी

      ✗ 2. संचालक

      ✔ 3. परावलंबी

      ✗ 4. स्वावलंबन

Question Type : **MCQ**

Question ID : **387868219**

Option 1 ID : **387868854**

Option 2 ID : **387868856**

Option 3 ID : **387868855**

Option 4 ID : **387868853**

Status : **Answered**

Chosen Option : **3**

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**Q.14** 'आजीला एकसष्टावे वर्ष सुरू असेल.' या वाक्यातील विशेषण सांगा.

Ans    ✔ 1. एकसष्टावे

      ✗ 2. असेल

      ✗ 3. आजीला

      ✗ 4. वर्ष

Question Type : **MCQ**

Question ID : **387868217**

Option 1 ID : **387868845**

Option 2 ID : **387868848**

Option 3 ID : **387868846**

Option 4 ID : **387868847**

Status : **Answered**

Chosen Option : **1**

**Q.15** पुढीलपैकी कोणता शब्द 'प्रौढी' या शब्दाचा समानार्थी शब्द नाही?

**Ans** ✅ 1. प्रसिद्धी

❌ 2. बढाई

❌ 3. शेखी

❌ 4. फुशारकी

Question Type : **MCQ**
Question ID : **387868220**
Option 1 ID : **387868860**
Option 2 ID : **387868857**
Option 3 ID : **387868858**
Option 4 ID : **387868859**
Status : **Answered**
Chosen Option : **3**

**Q.16** 'दिवाळीत सर्वांनी दारापुढे रांगोळ्या काढल्या होत्या '. या वाक्यातील शब्दयोगी अव्यय ओळखा.

**Ans** ✅ 1. पुढे

❌ 2. काढल्या

❌ 3. सर्वांनी

❌ 4. रांगोळ्या

Question Type : **MCQ**
Question ID : **387868216**
Option 1 ID : **387868844**
Option 2 ID : **387868842**
Option 3 ID : **387868841**
Option 4 ID : **387868843**
Status : **Answered**
Chosen Option : **1**

**Q.17** अचूक वाक्यरचना शोधा.

**Ans** ❌ 1. मासिक वाचण्यासाठी ते वाचकांना नवीन रांग आले की लावावी लागे.

❌ 2. नवीन रांग वाचण्यासाठी वाचकांना आले की ते मासिक लावावे लागे .

❌ 3. नवीन वाचकांना ते वाचण्यासाठी रांग आले की मासिक लावावी लागे.

✅ 4. नवीन मासिक आले की ते वाचण्यासाठी वाचकांना रांग लावावी लागे.

Question Type : **MCQ**
Question ID : **387868222**
Option 1 ID : **387868866**
Option 2 ID : **387868867**
Option 3 ID : **387868868**
Option 4 ID : **387868865**
Status : **Answered**
Chosen Option : **4**

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या.

अनेकदा प्रहरभर रात्र उरलेली असतानाच मी जागा होतो. तशी जाग आली की उठून चूळ भरायची आणि पेलाभर पाणी प्यायचे, त्यानंतर परत अंथरुणावर पडायचे असा माझा क्रम असतो. त्या रात्रीसुद्धा मला जाग आली, पण उशीला डोके टेकल्याबरोबर जाणवले की काहीतरी कमी पडते आहे.

मला अचानक माझ्या लहानपणाची आठवण झाली. आमच्या कोकणातील घर त्यावेळी माणसांनी भरलेले होते. आमच्या आई-वडलांबरोबर मी आणि माझी थोरली बहीण कोकणातील घरी गेलो होतो. त्या घरात काकू आणि आजी होत्या. गोठ्यात चार पाच गुरे होती. हाकेच्या अंतरावर आमच्या भागेल्याचे खोपट होते. चुलीपाशी लेकुरवाळी मांजरी होती. घराभोवती अनेक फुलझाडे होती. पुढील दाराच्या लांबरुंद अंगणातल्या वृंदावनात काळी तुलस होती. आणि पाटाचे पाणी आमच्या अंगणातून झुळझुळत वाहत होते. गौरी गणपतीला कोकणात येऊन नंतर दिवाळी संपली की आम्हाला पुण्याला परतायचे होते.
त्यावेळी हिंदळे गावातून देवगडपर्यंत बैलगाडीने,नंतर देवगड ते मुंबई आगबोटीने आणि शेवटी मुंबई--पुणे झुकझुक गाडीने आमचा प्रवास होत असे.

**SubQuestion No : 18**

Q.18 लेखकाला देवगड ते मुंबई प्रवास कसा करावा लागे?

Ans ✗ 1. बैलगाडीने

✔ 2. आगबोटीने

✗ 3. घोड्यावरून

✗ 4. मोटारीने

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868225** |
| Option 1 ID : | **387868874** |
| Option 2 ID : | **387868875** |
| Option 3 ID : | **387868873** |
| Option 4 ID : | **387868876** |
| Status : | **Answered** |
| Chosen Option : | **2** |

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या.

अनेकदा प्रहरभर रात्र उरलेली असतानाच मी जागा होतो. तशी जाग आली की उठून चूळ भरायची आणि पेलाभर पाणी प्यायचे, त्यानंतर परत अंथरुणावर पडायचे असा माझा क्रम असतो. त्या रात्रीसुद्धा मला जाग आली, पण उशीला डोके टेकल्याबरोबर जाणवले की काहीतरी कमी पडते आहे.

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त्यावेळी हिंदळे गावातून देवगडपर्यंत बैलगाडीने,नंतर देवगड ते मुंबई आगबोटीने आणि शेवटी मुंबई--पुणे झुकझुक गाडीने आमचा प्रवास होत असे.

**SubQuestion No : 19**

**Q.19** मांजरी कुठे बसत असे?

Ans  ✗ 1. खोपटात

   ✗ 2. अंगणात

   ✗ 3. गोठ्यात

   ✔ 4. चुलीपाशी

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868224** |
| Option 1 ID : | **387868872** |
| Option 2 ID : | **387868871** |
| Option 3 ID : | **387868869** |
| Option 4 ID : | **387868870** |
| Status : | **Answered** |
| Chosen Option : | **4** |

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या.

अनेकदा प्रहरभर रात्र उरलेली असतानाच मी जागा होतो. तशी जाग आली की उठून चूळ भरायची आणि पेलाभर पाणी प्यायचे, त्यानंतर परत अंथरुणावर पडायचे असा माझा क्रम असतो. त्या रात्रीसुद्धा मला जाग आली, पण उशीला डोके टेकल्याबरोबर जाणवले की काहीतरी कमी पडते आहे.

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त्यावेळी हिंदळे गावातून देवगडपर्यंत बैलगाडीने,नंतर देवगड ते मुंबई आगबोटीने आणि शेवटी मुंबई--पुणे झुकझुक गाडीने आमचा प्रवास होत असे.

**SubQuestion No : 20**

**Q.20** तुळस कुठे लावली होती?

Ans ✗ 1. दारात

✓ 2. वृंदावनात

✗ 3. गोठ्यात

✗ 4. घराभोवती

Question Type : **MCQ**
Question ID : **387868226**
Option 1 ID : **387868878**
Option 2 ID : **387868880**
Option 3 ID : **387868877**
Option 4 ID : **387868879**
Status : **Answered**
Chosen Option : **2**

Section : **General Knowledge**

**Q.21** Which of the following statements is correct?

Ans ✓ 1. The concept of supply curve is relevant only for perfect competition.

✗ 2. Price discrimination can take place only in oligopoly.

✗ 3. A new firm can easily enter in a monopoly.

✗ 4. There are no barriers to entry into or exit from the duopoly.

Question Type : **MCQ**
Question ID : **387868231**
Option 1 ID : **387868899**
Option 2 ID : **387868898**
Option 3 ID : **387868897**
Option 4 ID : **387868900**
Status : **Answered**
Chosen Option : **3**

**Q.22** What is the sanctioned strength of judges in Bombay High Court (as on March 2022)?

**Ans** ✓ 1. 94

✗ 2. 90

✗ 3. 98

✗ 4. 86

Question Type : **MCQ**

Question ID : **387868233**

Option 1 ID : **387868906**

Option 2 ID : **387868907**

Option 3 ID : **387868905**

Option 4 ID : **387868908**

Status : **Answered**

Chosen Option : **3**

**Q.23** Which country's prime minister, Abdalla Hamdok, resigned in January 2022 after returning to the post for just 6 weeks following a military coup in October 2021?

**Ans** ✗ 1. Egypt

✓ 2. Sudan

✗ 3. Nigeria

✗ 4. Morocco

Question Type : **MCQ**

Question ID : **387868227**

Option 1 ID : **387868881**

Option 2 ID : **387868882**

Option 3 ID : **387868883**

Option 4 ID : **387868884**

Status : **Answered**

Chosen Option : **3**

**Q.24** Which of the following has been ranked the world's most polluted capital city for the second consecutive year as per IQAir's 2021 World Air Quality Report?

**Ans** ✗ 1. Ankara

✗ 2. Dhaka

✗ 3. Beijing

✓ 4. Delhi

Question Type : **MCQ**

Question ID : **387868229**

Option 1 ID : **387868892**

Option 2 ID : **387868889**

Option 3 ID : **387868891**

Option 4 ID : **387868890**

Status : **Answered**

Chosen Option : **2**

**Q.25** Which of the following districts of Maharashtra does NOT share a common boundary with Telangana?

Ans    ✗ 1. Gadchiroli

     ✓ 2. Gondia

     ✗ 3. Yavatmal

     ✗ 4. Nanded

Question Type : **MCQ**

Question ID : **387868235**

Option 1 ID : **387868914**

Option 2 ID : **387868913**

Option 3 ID : **387868915**

Option 4 ID : **387868916**

Status : **Answered**

Chosen Option : **3**

**Q.26** Which Article of the Indian Constitution ensures that the Council of Ministers of Maharashtra government shall be collectively responsible to the Legislative Assembly of Maharashtra?

Ans    ✗ 1. Article 180

     ✗ 2. Article 158

     ✗ 3. Article 152

     ✓ 4. Article 164

Question Type : **MCQ**

Question ID : **387868232**

Option 1 ID : **387868904**

Option 2 ID : **387868902**

Option 3 ID : **387868901**

Option 4 ID : **387868903**

Status : **Answered**

Chosen Option : **2**

**Q.27** Select the correct statement with respect to the Census 2011.

Ans    ✗ 1. The sex ratio in Maharashtra is 920.

     ✗ 2. The child sex ratio in Maharashtra is 929.

     ✓ 3. The percentage of Maharashtra's population to India's population is 9.28%.

     ✗ 4. The population of Maharashtra is 96,878,627.

Question Type : **MCQ**

Question ID : **387868236**

Option 1 ID : **387868917**

Option 2 ID : **387868918**

Option 3 ID : **387868920**

Option 4 ID : **387868919**

Status : **Answered**

Chosen Option : **2**

**Q.28** The Energy and Resources Institute (TERI) has successfully concluded the Twenty First Edition of the World Sustainable Development Summit (WSDS) in February 2022. What was the theme of above-described summit?

Ans  ✗ 1. Only One Earth

✓ 2. Towards a Resilient Planet: Ensuring a Sustainable and Equitable Future

✗ 3. Ecosystem Restoration

✗ 4. Redefining Our Common Future: Safe and Secure Environment for All

Question Type : **MCQ**
Question ID : **387868228**
Option 1 ID : **387868887**
Option 2 ID : **387868888**
Option 3 ID : **387868886**
Option 4 ID : **387868885**
Status : **Answered**
Chosen Option : **2**

**Q.29** What is the maximum limit of Tarun category of loan under Pradhan Mantri MUDRA Yojana?

Ans  ✓ 1. ₹10,00,000

✗ 2. ₹15,00,000

✗ 3. ₹1,00,000

✗ 4. ₹50,000

Question Type : **MCQ**
Question ID : **387868230**
Option 1 ID : **387868895**
Option 2 ID : **387868896**
Option 3 ID : **387868894**
Option 4 ID : **387868893**
Status : **Answered**
Chosen Option : **3**

**Q.30** In which district of Maharashtra is the Jayakwadi dam, constructed on the Godavari river, located?

Ans  ✗ 1. Nanded

✗ 2. Chandrapur

✗ 3. Amravati

✓ 4. Aurangabad

Question Type : **MCQ**
Question ID : **387868234**
Option 1 ID : **387868912**
Option 2 ID : **387868911**
Option 3 ID : **387868909**
Option 4 ID : **387868910**
Status : **Answered**
Chosen Option : **4**

Section : **Logical Ability**

**Q.31** Read the given statement and conclusions carefully, and decide which of the given conclusions is/are true based on the given statement.

**Statement:**
U < S = J ≥ Q > V = T

**Conclusions:**
I. S > T
II. J > V

**Ans**  ✗ 1. Neither conclusion I nor II is true

✗ 2. Only conclusion II is true

✔ 3. Both conclusions I and II are true

✗ 4. Only conclusion I is true

**Q.32** Refer to the given letter, number, symbol series and answer the following question.
(Left) M % 6 $ L * 9 # D + R @ 8 >T 7& Q 2 < H 4 ! (Right)
If all the numbers are dropped from the series and each letter is changed to the letter following it in the English alphabetical order, which of the following will be seventh from the left in the new series?

**Ans**  ✗ 1. +

✗ 2. #

✗ 3. D

✔ 4. E

**Q.33** Refer to the given 4-letter words and answer the following question.
(left) DRUM SAND MELT PLUS (right)
If in each of the given words, each letter is changed to the next letter in the English alphabetical order, how many words thus formed will have no vowel?

Ans
❌ 1. Two
✅ 2. One
❌ 3. Four
❌ 4. Three

Question Type : **MCQ**
Question ID : **387868243**
Option 1 ID : **387868947**
Option 2 ID : **387868946**
Option 3 ID : **387868945**
Option 4 ID : **387868948**
Status : **Answered**
Chosen Option : **2**

**Q.34** In a certain code language, 'MICRO' is written as 'OGHVK' and 'CLEAR' is written as 'EJJEN'. How will 'THICK' be written in that language?

Ans
❌ 1. VNGGH
❌ 2. VGNHG
❌ 3. VFGNG
✅ 4. VFNGG

Question Type : **MCQ**
Question ID : **387868244**
Option 1 ID : **387868952**
Option 2 ID : **387868949**
Option 3 ID : **387868950**
Option 4 ID : **387868951**
Status : **Answered**
Chosen Option : **4**

**Q.35** Select the term from among the given options that can replace the question mark (?) in the following series.

GUH 5, IRL 12, KOP 19, MLT 26, OIX 33, ?

Ans
✅ 1. QFB 40
❌ 2. QEC 42
❌ 3. PFD 42
❌ 4. PEC 40

Question Type : **MCQ**
Question ID : **387868241**
Option 1 ID : **387868939**
Option 2 ID : **387868937**
Option 3 ID : **387868940**
Option 4 ID : **387868938**
Status : **Answered**
Chosen Option : **1**

**Q.36** Eight children, Niharika, Vipraj, Karunya, Balu, Chiru, Druva, Fatima and Lasya, are sitting on a straight bench facing towards the north. Chiru is sitting fourth from the right side and is second to the left of Niharika. Karunya is sitting to the immediate right of Druva, who is sitting at the extreme left end. Vipraj is sitting third to the left of Niharika. Who is sitting to the immediate left of Chiru?

Ans

✗ 1. Niharika

✗ 2. Karunya

✗ 3. Druva

✔ 4. Vipraj

**Q.37** Select the figure from among the given options that can replace the question mark (?) in the following series.



Ans



✗ 1.



✔ 2.



✗ 3.



✗ 4.

**Q.38** There are 84 students in a guitar class, and the tutor has planned for an arrangement of the students on stage in a row. Ravalika is 25th from the left side of the row and Kishore is 34th from the right side of the row. Find the number of students standing between Ravalika and Kishore.

**Ans** ✗ 1. 26

✗ 2. 22

✓ 3. 25

✗ 4. 24

Question Type : **MCQ**

Question ID : **387868238**

Option 1 ID : **387868925**

Option 2 ID : **387868928**

Option 3 ID : **387868926**

Option 4 ID : **387868927**

Status : **Answered**

Chosen Option : **1**

**Q.39** Sundar is the son of Priti, who is the mother of Ojaswini. Ojaswini is the daughter of Kishore. Kishore is the son of Maya. Laxman is the father-in-law of Priti. Tarun is Ojaswini's daughter's father. Yamuna is the sister of Tarun. Jaya is Yamuna's mother. How is Ojaswini related to Jaya?

**Ans** ✗ 1. Sister

✗ 2. Sister-in-law

✗ 3. Mother-in-law

✓ 4. Daughter-in-law

Question Type : **MCQ**

Question ID : **387868245**

Option 1 ID : **387868955**

Option 2 ID : **387868956**

Option 3 ID : **387868953**

Option 4 ID : **387868954**

Status : **Answered**

Chosen Option : **3**

**Q.40** Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

**Statements:**
Some jars are nets.
Some nets are bricks.
All the bricks are chalks.

**Conclusions:**
I. Some chalks are nets.
II. Some bricks are jars.

**Ans** ✗ 1. Only conclusion II follows

✔ 2. Only conclusion I follows

✗ 3. Both conclusions I and II follow

✗ 4. Neither conclusion I nor II follows

Question Type : **MCQ**
Question ID : **387868239**
Option 1 ID : **387868930**
Option 2 ID : **387868929**
Option 3 ID : **387868932**
Option 4 ID : **387868931**
Status : **Answered**
Chosen Option : **2**

Section : **Civil Engineering**

**Q.41** Which of the following statements are correct/incorrect with respect to hydraulic pumps?

Statement A: Reciprocating pumps are used for lifting oils from deep wells, as it can build up very high pressures.

Statement B: Discharge capacity of a centrifugal pump is greater than that of reciprocating pumps.

**Ans** ✔ 1. Both the statements are correct

✗ 2. Both the statements are incorrect

✗ 3. Statement B is correct and A is incorrect

✗ 4. Statement A is correct and B is incorrect

Question Type : **MCQ**
Question ID : **387868272**
Option 1 ID : **3878681063**
Option 2 ID : **3878681064**
Option 3 ID : **3878681062**
Option 4 ID : **3878681061**
Status : **Answered**
Chosen Option : **1**

**Q.42** According to the National Building Code of India:2016 (volume 1-part 4), buildings are classified into _____ groups based on occupancy.

**Ans**
- ✗ 1. 6
- ✗ 2. 11
- ✗ 3. 4
- ✓ 4. 9

Question Type : **MCQ**
Question ID : **387868249**
Option 1 ID : **387868970**
Option 2 ID : **387868972**
Option 3 ID : **387868969**
Option 4 ID : **387868971**
Status : **Answered**
Chosen Option : **2**

**Q.43** A soil sample has a porosity of 25 per cent. Calculate its void ratio.

**Ans**
- ✗ 1. 5.0
- ✗ 2. 0.20
- ✓ 3. 0.33
- ✗ 4. 0.49

Question Type : **MCQ**
Question ID : **387868264**
Option 1 ID : **3878681032**
Option 2 ID : **3878681029**
Option 3 ID : **3878681030**
Option 4 ID : **3878681031**
Status : **Answered**
Chosen Option : **3**

**Q.44** A Reinforce Cement Concrete (RCC) structure requires 12 RCC columns of size 0.4 m breadth, 0.2 m thickness and 3 m height. Calculate the quantity of steel reinforcement required, if the steel reinforcement to be provided is 2.0% by their gross volume. Consider unit weight of steel as 7850 kg/m³.

**Ans**
- ✓ 1. 4.52 quintals
- ✗ 2. 6.89 quintals
- ✗ 3. 1.78 quintals
- ✗ 4. 3.13 quintals

Question Type : **MCQ**
Question ID : **387868295**
Option 1 ID : **3878681154**
Option 2 ID : **3878681156**
Option 3 ID : **3878681153**
Option 4 ID : **3878681155**
Status : **Answered**
Chosen Option : **2**

**Q.45** In India, the Environment (Protection) Act came into force from the year _____.

**Ans**
✗ 1. 1998
✗ 2. 2005
✗ 3. 1965
✓ 4. 1986

Question Type : **MCQ**
Question ID : **387868302**
Option 1 ID : **3878681183**
Option 2 ID : **3878681184**
Option 3 ID : **3878681181**
Option 4 ID : **3878681182**
Status : **Answered**
Chosen Option : **2**

**Q.46** Identify the INCORRECT statement with respect to compaction of soil.

**Ans**
✗ 1.
The density of soil obtained during compaction, for a given soil, greatly depends upon the type of compaction.

✓ 2.
Fine grained soils attain a much higher density and lower optimum water content than coarse grained soils.

✗ 3.
The amount of compaction greatly affects the maximum dry density and optimum water content of a given soil.

✗ 4.
The maximum dry density of soil achieved corresponding to a given compactive energy largely depends upon the type of soil.

Question Type : **MCQ**
Question ID : **387868267**
Option 1 ID : **3878681043**
Option 2 ID : **3878681042**
Option 3 ID : **3878681041**
Option 4 ID : **3878681044**
Status : **Answered**
Chosen Option : **1**

**Q.47** Identify the INCORRECT statement with respect to the terms and principles used in compass surveying.

**Ans**
✗ 1.
Magnetic declination at a place can be either eastern declination or western declination.

✗ 2.
True meridian through a point is the line in which a plane, passing through that point, the north and south poles intersects with surface of earth.

✗ 3.
Fore bearing of a line measured in whole circle bearing system varies from 0° to 360°.

✓ 4.
Gold present below the surface of the earth is one of the sources of local attraction.

Question Type : **MCQ**
Question ID : **387868251**
Option 1 ID : **387868979**
Option 2 ID : **387868977**

Status : **Answered**

**Q.48** A cantilever beam of span L m is subjected to a point load W kN acting downwards at its free end. Calculate the slope at the free end, if flexural rigidity (EI) is constant throughout the length.

**Ans**

✗ 1. $\dfrac{wL^3}{6EI}$ clockwise with respect to the left tangent

✔ 2. $\dfrac{wL^2}{2EI}$ clockwise with respect to the left tangent

✗ 3. $\dfrac{wL^2}{6EI}$ clockwise with respect to the left tangent

✗ 4. $\dfrac{wL^3}{3EI}$ clockwise with respect to the left tangent

Question Type : **MCQ**
Question ID : **387868274**
Option 1 ID : **3878681071**
Option 2 ID : **3878681069**
Option 3 ID : **3878681072**
Option 4 ID : **3878681070**
Status : **Answered**
Chosen Option : **2**

**Q.49** Identify the INCORRECT statement with respect to Solid Waste Management Rules, 2016.

**Ans**

✗ 1.
No person should throw, burn, or bury the solid waste generated by them, on streets, open public spaces outside his premises, or in the drain, or water bodies.

✗ 2.
Generator will have to pay 'User Fee' to the waste collector and 'Spot Fine' for littering and non-segregation.

✗ 3.
All hotels and restaurants should segregate biodegradable waste and set up a system of collection or follow the system of collection set up by local bodies to ensure that such food waste is utilised for composting/bio-methanation.

✔ 4.
The developers of Special Economic Zones, industrial estates, industrial parks to earmark at least 25% of the total area of the plot for recovery and recycling facilities.

Question Type : **MCQ**
Question ID : **387868301**
Option 1 ID : **3878681177**
Option 2 ID : **3878681178**
Option 3 ID : **3878681180**
Option 4 ID : **3878681179**
Status : **Answered**
Chosen Option : **2**

**Q.50** Find the height of a water column corresponding to a pressure of 50 kN/m$^2$. Take specific weight of water as 10 kN/m$^3$.

Ans
- ✗ 1. 4 m
- ✔ 2. 5 m
- ✗ 3. 20 m
- ✗ 4. 0.5 m

Question Type : **MCQ**
Question ID : **387868268**
Option 1 ID : **3878681047**
Option 2 ID : **3878681048**
Option 3 ID : **3878681046**
Option 4 ID : **3878681045**
Status : **Answered**
Chosen Option : **2**

**Q.51** Which of the following structural elements is classified as a determinate structure?

Ans
- ✗ 1. Propped cantilever beam
- ✗ 2. Continuous beam
- ✔ 3. Three hinged arch
- ✗ 4. Fixed beam

Question Type : **MCQ**
Question ID : **387868275**
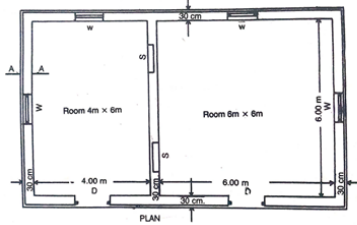Option 1 ID : **3878681073**
Option 2 ID : **3878681074**
Option 3 ID : **3878681075**
Option 4 ID : **3878681076**
Status : **Answered**
Chosen Option : **3**

**Q.52** Identify the number of joints considered from the given plan to work out the quantity of different items of work using the centre line method.



PLAN

**Ans** ✗ 1. 0

✗ 2. 4

✔ 3. 2

✗ 4. 3

Question Type : **MCQ**
Question ID : **387868294**
Option 1 ID : **3878681149**
Option 2 ID : **3878681151**
Option 3 ID : **3878681150**
Option 4 ID : **3878681152**
Status : **Answered**
Chosen Option : **3**

**Q.53** Which of the following statements are correct/incorrect with respect to gradients used in railways?

Statement A: Pusher gradient is flatter than ruling gradient and they are provided to reduce the length of the railway line so that the overall cost also reduces.

Statement B: Momentum gradient is flatter than ruling gradient and they are provided in valley portion where a falling gradient is followed by a rising gradient.

**Ans** ✗ 1. Both the statements are correct

✗ 2. Statement A is correct and B is incorrect

✗ 3. Statement B is correct and A is incorrect

✔ 4. Both the statements are incorrect

Question Type : **MCQ**
Question ID : **387868285**
Option 1 ID : **3878681115**
Option 2 ID : **3878681113**
Option 3 ID : **3878681114**
Option 4 ID : **3878681116**
Status : **Answered**
Chosen Option : **1**

**Q.54** In an open channel flow, the flow is said to be laminar flow if the Reynolds number is _____.

**Ans**
✗ 1. greater than 3000

✗ 2. lying between 1000 and 3000

✗ 3. lying between 500 and 2000

✔ 4. less than 500

Question Type : **MCQ**
Question ID : **387868271**
Option 1 ID : **3878681058**
Option 2 ID : **3878681059**
Option 3 ID : **3878681060**
Option 4 ID : **3878681057**
Status : **Answered**
Chosen Option : **4**

**Q.55** Which of the following is an example of igneous rocks used for construction?

**Ans**
✗ 1. Quartzite

✔ 2. Granite

✗ 3. Marble

✗ 4. Lime stone

Question Type : **MCQ**
Question ID : **387868247**
Option 1 ID : **387868963**
Option 2 ID : **387868962**
Option 3 ID : **387868961**
Option 4 ID : **387868964**
Status : **Answered**
Chosen Option : **2**

**Q.56** Calculate the steepest gradient that can be provided on a 2.5° curve for a broad gauge line with ruling gradient of 1 in 200.

**Ans**
✗ 1. 1 in 300

✔ 2. 1 in 250

✗ 3. 1 in 150

✗ 4. 1 in 200

Question Type : **MCQ**
Question ID : **387868286**
Option 1 ID : **3878681120**
Option 2 ID : **3878681119**
Option 3 ID : **3878681117**
Option 4 ID : **3878681118**
Status : **Answered**
Chosen Option : **3**

**Q.57** Which of the following laboratory tests does NOT measure shear strength of soil?

**Ans**
✗ 1. Direct shear test

✗ 2. Triaxial shear test

✗ 3. Unconfined compression test

✔ 4. Core cutter test

Question Type : **MCQ**
Question ID : **387868265**
Option 1 ID : **3878681033**
Option 2 ID : **3878681034**
Option 3 ID : **3878681035**
Option 4 ID : **3878681036**
Status : **Answered**
Chosen Option : **4**

**Q.58** Identify the correct statement with respect to Steel Fibre Reinforced Concrete (SFRC).

**Ans**
✗ 1.
SFRC offers better flow ability when compared to other special concrete types, so that it can be used at locations where reinforcement congestion occurred.

✗ 2.
Energy required to compact SFRC is less than self-compacting concrete.

✗ 3.
Geopolymer concrete is more ductile in nature when compared to SFRC.

✔ 4. SFRC is tougher when compared to plain cement concrete.

Question Type : **MCQ**
Question ID : **387868263**
Option 1 ID : **3878681025**
Option 2 ID : **3878681026**
Option 3 ID : **3878681028**
Option 4 ID : **3878681027**
Status : **Answered**
Chosen Option : **4**

**Q.59** Which of the following is the major (highest percentage) chemical composition present in ordinary Portland cement?

**Ans**
✗ 1. $N_2O$

✗ 2. $Al_2O_3$

✗ 3. $SiO_2$

✔ 4. CaO

Question Type : **MCQ**
Question ID : **387868248**
Option 1 ID : **387868968**
Option 2 ID : **387868967**
Option 3 ID : **387868966**
Option 4 ID : **387868965**
Status : **Answered**

**Q.60** A cantilever beam of length L m is subjected to a uniformly varying load throughout its length, with an intensity of zero at the free end (A) to w kN/m at the fixed end (B). Calculate the value of the bending moment at a distance of $\frac{L}{2}$ m measured from the fixed end (B).

Ans

✗ 1. $\frac{wl^2}{28}$ kN-m

✗ 2. $\frac{wl^2}{32}$ kN-m

✔ 3. $\frac{wl^2}{48}$ kN-m

✗ 4. $\frac{wl^2}{16}$ kN-m

Question Type : **MCQ**
Question ID : **387868258**
Option 1 ID : **3878681006**
Option 2 ID : **3878681007**
Option 3 ID : **3878681008**
Option 4 ID : **3878681005**
Status : **Answered**
Chosen Option : **3**

**Q.61** Which of the following statements are correct/incorrect with respect to direct and bending stresses in vertical members?

Statement A: Eccentric load acting on vertical members produces direct stress as well as bending stress.

Statement B: If axial compressive (direct) stress is more than bending stress, then the stress throughout the section will be tensile in nature.

Ans

✗ 1. Statement B is correct and A is incorrect

✗ 2. Both the statements are correct

✗ 3. Both the statements are incorrect

✔ 4. Statement A is correct and B is incorrect

Question Type : **MCQ**
Question ID : **387868273**
Option 1 ID : **3878681066**
Option 2 ID : **3878681067**
Option 3 ID : **3878681068**
Option 4 ID : **3878681065**
Status : **Answered**
Chosen Option : **4**

**Q.62** Planning and scheduling a project does NOT involve:

Ans ✔ 1. providing effective leadership

✘ 2.
developing alternative courses of action within the specified constraints

✘ 3.
comparing alternatives in terms of objectives, feasibility and consequences

✘ 4. collecting and synthesizing information

Question Type : **MCQ**
Question ID : **387868279**
Option 1 ID : **3878681092**
Option 2 ID : **3878681091**
Option 3 ID : **3878681090**
Option 4 ID : **3878681089**
Status : **Answered**
Chosen Option : **4**

**Q.63** Which of the following is NOT a method used for the disposal of municipal solid waste?

Ans ✘ 1. Incineration

✔ 2. Autoclaving

✘ 3. Shredding and pulverization

✘ 4. Vermicomposting

Question Type : **MCQ**
Question ID : **387868300**
Option 1 ID : **3878681175**
Option 2 ID : **3878681176**
Option 3 ID : **3878681173**
Option 4 ID : **3878681174**
Status : **Answered**
Chosen Option : **2**

**Q.64** Which of the following documents provides a legal binding agreement for both the owner and the builder that says the executed job will receive the specific amount of compensation?

Ans ✔ 1. Construction contract

✘ 2. Project management plan

✘ 3. Risk insurance

✘ 4. Specifications

Question Type : **MCQ**
Question ID : **387868280**
Option 1 ID : **3878681093**
Option 2 ID : **3878681096**
Option 3 ID : **3878681095**
Option 4 ID : **3878681094**

**Q.65** Identify the INCORRECT statement with respect to flow of water through pipes.

**Ans**

✗ 1. The major energy loss in a pipe flow is loss due to friction.

✗ 2. Darcy-Weisbach formula can be used to calculate major energy losses in a pipe flow.

✗ 3. In a pipe flow, if the cross section of the pipe is partially full, the flow behaves like an open channel flow.

✔ 4. Bend provided along the alignment of a pipeline is not a reason for energy loss in a pipe flow.

Question Type : **MCQ**
Question ID : **387868270**
Option 1 ID : **3878681054**
Option 2 ID : **3878681056**
Option 3 ID : **3878681053**
Option 4 ID : **3878681055**
Status : **Answered**
Chosen Option : **4**

**Q.66** Calculate the centroid distance from the diametric axis of a semi-circular lamina if its radius R = 30 cm.

**Ans**

✔ 1. $+/- \frac{40}{\pi}$ cm

✗ 2. $+/- \frac{80}{\pi}$ cm

✗ 3. $+/- \frac{30}{\pi}$ cm

✗ 4. $+/- \frac{160}{\pi}$ cm

Question Type : **MCQ**
Question ID : **387868305**
Option 1 ID : **3878681193**
Option 2 ID : **3878681196**
Option 3 ID : **3878681194**
Option 4 ID : **3878681195**
Status : **Answered**
Chosen Option : **1**

**Q.67** Which of the following shapes of aggregate possess the least surface area for the given constant mass?

**Ans**

✗ 1. Angular

✗ 2. Elongated

✔ 3. Rounded

✗ 4. Tetrahedral

Question Type : **MCQ**
Question ID : **387868260**
Option 1 ID : **3878681014**
Option 2 ID : **3878681016**
Option 3 ID : **3878681013**
Status : **Answered**

**Q.68** Which of the following statements are correct/incorrect with respect to simple lifting machines?

Statement A: Magnitude of load is always smaller than the effort.

Statement B: Unit of load and effort is Newton (N).

Ans
- ✗ 1. Both the statements are correct
- ✗ 2. Statement A is correct and B is incorrect
- ✔ 3. Statement B is correct and A is incorrect
- ✗ 4. Both the statements are incorrect

Question Type : **MCQ**
Question ID : **387868306**
Option 1 ID : **3878681199**
Option 2 ID : **3878681197**
Option 3 ID : **3878681198**
Option 4 ID : **3878681200**
Status : **Answered**
Chosen Option : **1**

**Q.69** As per IS 10262:2019, what is the assumed standard deviation value used for the calculation of target strength for the grade of concrete M70?

Ans
- ✗ 1. $3.5 \text{ N/mm}^2$
- ✗ 2. $4 \text{ N/mm}^2$
- ✗ 3. $5 \text{ N/mm}^2$
- ✔ 4. $6 \text{ N/mm}^2$

Question Type : **MCQ**
Question ID : **387868261**
Option 1 ID : **3878681017**
Option 2 ID : **3878681018**
Option 3 ID : **3878681019**
Option 4 ID : **3878681020**
Status : **Answered**
Chosen Option : **4**

**Q.70** In a levelling work, its observed that back sight of station A is 1.505 m, fore sight of station B and C is 1.305 m and 1.320 m, respectively, from an instrument station. Calculate the reduced level (RL) at station C if the RL at station A is 520 m.

Ans
- ✗ 1. 522.625 m
- ✗ 2. 519.985 m
- ✗ 3. 522.825 m
- ✔ 4. 520.185 m

Question Type : **MCQ**
Question ID : **387868252**
Option 1 ID : **387868981**
Option 2 ID : **387868982**
Option 3 ID : **387868984**
Status : **Answered**

**Q.71** As per the limit state design of steel beams, which of the following classified sections based on their yield moment, plastic moment, and rotational capacity, the material is used effectively and stressed to the maximum extent?

Ans
✗ 1. Compact section

✓ 2. Plastic section

✗ 3. Semi compact section

✗ 4. Slender section

Question Type : **MCQ**
Question ID : **387868289**
Option 1 ID : **3878681130**
Option 2 ID : **3878681132**
Option 3 ID : **3878681131**
Option 4 ID : **3878681129**
Status : **Answered**
Chosen Option : **1**

**Q.72** Select the odd one out with respect to classified type of energy, i.e., renewable or non-renewable.

Ans
✗ 1. Biomass from plants

✗ 2. Hydropower

✗ 3. Solar energy

✓ 4. Natural gas

Question Type : **MCQ**
Question ID : **387868299**
Option 1 ID : **3878681171**
Option 2 ID : **3878681169**
Option 3 ID : **3878681172**
Option 4 ID : **3878681170**
Status : **Answered**
Chosen Option : **1**

**Q.73** The space between two square flat parallel plates is filled with oil. The thickness of the oil film is 20 mm. The upper plate, which moves at 2 m/s, requires a force P to maintain the speed. If the applied force P is causing a shear stress of 200 N/m$^2$ between the plates, calculate the dynamic viscosity of oil.

Ans
✗ 1. $3.2 \text{ N.s/m}^2$

✗ 2. $1.6 \text{ N.s/m}^2$

✗ 3. $1 \text{ N.s/m}^2$

✓ 4. $2 \text{ N.s/m}^2$

Question Type : **MCQ**
Question ID : **387868269**
Option 1 ID : **3878681052**
Option 2 ID : **3878681050**
Option 3 ID : **3878681049**
Option 4 ID : **3878681051**

**Q.74** According to the National Building Code of India:2016 (volume 1-part 4), which of the following Classes of buildings has surfaces of very low flame spread?

Ans ✗ 1. Class 3

✗ 2. Class 10

✔ 3. Class 1

✗ 4. Class 7

Question Type : **MCQ**
Question ID : **387868250**
Option 1 ID : **387868974**
Option 2 ID : **387868976**
Option 3 ID : **387868973**
Option 4 ID : **387868975**
Status : **Answered**
Chosen Option : **1**

**Q.75** Identify the INCORRECT statement with respect to different types of chemical admixtures used in making cement concrete.

Ans ✗ 1.

Super plasticizers act as high range water reducers in making cement concrete.

✗ 2.

Accelerating admixtures used in making cement concrete increases the rate of early strength development in concrete.

✗ 3.

Use of retarding admixtures in making cement concrete keeps concrete plastic and workable for a longer time than concrete without retarders.

✔ 4.

Use of air entraining admixtures in making cement concrete reduces resistance of concrete to freezing and thawing.

Question Type : **MCQ**
Question ID : **387868262**
Option 1 ID : **3878681021**
Option 2 ID : **3878681023**
Option 3 ID : **3878681022**
Option 4 ID : **3878681024**
Status : **Answered**
Chosen Option : **2**

**Q.76** In a survey work using theodolite, when is an observation termed as face left observation?

**Ans** ✗ 1.
Tangent screw is located is located at the left side of the observer's observation direction.

✔ 2.
Vertical circle is located at the left side of the observer's observation direction.

✗ 3.
Altitude level is located at the left side of the observer's observation direction.

✗ 4.
Vernier scale A in horizontal circle is located at the left side of the observer's observation direction.

Question Type : **MCQ**
Question ID : **387868253**
Option 1 ID : **387868986**
Option 2 ID : **387868985**
Option 3 ID : **387868988**
Option 4 ID : **387868987**
Status : **Answered**
Chosen Option : **2**

**Q.77** As per IS 4954:1968, what is the acceptable outdoor noise level in residential areas at rural regions?

**Ans** ✗ 1. 60 dB

✗ 2. 55 dB

✔ 3. 35 dB

✗ 4. 45 dB

Question Type : **MCQ**
Question ID : **387868298**
Option 1 ID : **3878681168**
Option 2 ID : **3878681167**
Option 3 ID : **3878681165**
Option 4 ID : **3878681166**
Status : **Answered**
Chosen Option : **3**

**Q.78** Identify the INCORRECT statement with respect to Tacheometric surveying.

**Ans** ✗ 1. Stadia hairs are not required in the tangential system.

✗ 2.
The stadia method is based on the principle that the ratio of the perpendicular to the base is constant in similar isosceles triangles.

✔ 3. Fixed hair method is also known as subtense method.

✗ 4.
The principle of subtense method is that the staff intercept 'S' forms the fixed base distance, while the tacheometer angle $\beta$ changes with the staff position.

Question Type : **MCQ**
Question ID : **387868254**
Option 1 ID : **387868992**
Option 2 ID : **387868991**
Option 3 ID : **387868990**

Chosen Option : **2**

**Q.79** A block of weight 600 N subjected to a horizontal force of magnitude P N is resting on a horizontal surface. If the limiting friction value is 150 N for the said block and the surface, calculate the coefficient of friction between the surfaces of contact.

**Ans** ✔ 1. 0.25

✘ 2. 0.45

✘ 3. 0.90

✘ 4. 0.15

Question Type : **MCQ**
Question ID : **387868304**
Option 1 ID : **3878681190**
Option 2 ID : **3878681191**
Option 3 ID : **3878681192**
Option 4 ID : **3878681189**
Status : **Answered**
Chosen Option : **1**

**Q.80** Which of the following statements are correct/incorrect with respect to standards set for lap length and development length in reinforced cement concrete structures as per IS 456:2000 specifications?

Statement A: Lap length in compression is equal to development length in compression.

Statement B: When bars of two different diameters are to be spliced, the lap length shall be calculated on the basis of the diameter of the larger bar.

**Ans** ✘ 1. Statement B is correct and A is incorrect

✘ 2. Both the statements are incorrect

✔ 3. Statement A is correct and B is incorrect

✘ 4. Both the statements are correct

Question Type : **MCQ**
Question ID : **387868291**
Option 1 ID : **3878681138**
Option 2 ID : **3878681140**
Option 3 ID : **3878681137**
Option 4 ID : **3878681139**
Status : **Answered**
Chosen Option : **4**

**Q.81** Which of the following IS codes provides "Safety standards on scaffolds and ladders"?

**Ans** ✘ 1. IS 2598 : Part 1 : 1987

✘ 2. IS 592 : Part 1 : 1987

✔ 3. IS 3696 : Part 1 : 1987

✘ 4. IS 1132 : Part 1 : 1987

Question Type : **MCQ**
Question ID : **387868281**
Option 1 ID : **3878681099**
Option 2 ID : **3878681100**
Option 3 ID : **3878681097**
Option 4 ID : **3878681098**
Chosen Option : **4**

**Q.82** As per IS 456 :2000, the minimum number of longitudinal steel bars shall be placed in a rectangular column is _____.

Ans  ✗ 1. 1

✓ 2. 4

✗ 3. 2

✗ 4. 3

Question Type : **MCQ**

Question ID : **387868292**

Option 1 ID : **3878681144**

Option 2 ID : **3878681142**

Option 3 ID : **3878681141**

Option 4 ID : **3878681143**

Status : **Answered**

Chosen Option : **2**

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**Q.83** As per IRC specifications, the maximum width of a vehicle shall be _____.

Ans  ✓ 1. 2.44 m

✗ 2. 1.36 m

✗ 3. 2.92 m

✗ 4. 1.95 m

Question Type : **MCQ**

Question ID : **387868283**

Option 1 ID : **3878681107**

Option 2 ID : **3878681105**

Option 3 ID : **3878681108**

Option 4 ID : **3878681106**

Status : **Answered**

Chosen Option : **1**

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**Q.84** Calculate the moment of inertia of a right-angled triangle ABC with respect to base AB. Take base width AB = 3 cm and height AC = 4 cm.

Ans  ✓ 1. $16 \text{ cm}^4$

✗ 2. $12 \text{ cm}^4$

✗ 3. $14 \text{ cm}^4$

✗ 4. $18 \text{ cm}^4$

Question Type : **MCQ**

Question ID : **387868255**

Option 1 ID : **387868995**

Option 2 ID : **387868993**

Option 3 ID : **387868994**

Option 4 ID : **387868996**

Status : **Answered**

Chosen Option : **1**

**Q.85** Identify the INCORRECT statement with respect to the concepts/theorems followed in the moment distribution method used for the analysis of indeterminate structures.

**Ans** ✔ 1.
While distributing the moments in a rigid joint, if one end of the member is not restrained then its stiffness should be multiplied by $\frac{1}{4}$ .

✘ 2.
When the member is fixed at one end and a moment is applied at the other end which is simply supported or hinged, the moment induced at the fixed end is one half of the applied moment.

✘ 3.
In a fixed beam, if the support settles/subsides/sinks by an amount Δ, the moment required to make the ends horizontal is $\frac{6EI\Delta}{l^2}$ .

✘ 4.
If a moment is applied in a stiff joint of a structure, the moment is resisted by various members in proportion to their respective stiffness

Question Type : **MCQ**
Question ID : **387868276**
Option 1 ID : **3878681078**
Option 2 ID : **3878681079**
Option 3 ID : **3878681077**
Option 4 ID : **3878681080**
Status : **Answered**
Chosen Option : **1**

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**Q.86** The process of establishing a structural relationship among the functions of people, so as to streamline the achievement of assigned objectives is called _____.

**Ans** ✘ 1. directing

✘ 2. staffing

✘ 3. planning

✔ 4. organising

Question Type : **MCQ**
Question ID : **387868278**
Option 1 ID : **3878681087**
Option 2 ID : **3878681088**
Option 3 ID : **3878681085**
Option 4 ID : **3878681086**
Status : **Answered**
Chosen Option : **4**

**Q.87** As per IRC recommendations, which of the following types of road surfaces requires flatter cross slope (camber)?

Ans
- ✗ 1. Thin bituminous surface
- ✓ 2. Cement concrete surface
- ✗ 3. Water bound macadam surface
- ✗ 4. Earth surface

Question Type : **MCQ**
Question ID : **387868282**
Option 1 ID : **3878681104**
Option 2 ID : **3878681101**
Option 3 ID : **3878681103**
Option 4 ID : **3878681102**
Status : **Answered**
Chosen Option : **2**

**Q.88** A cantilever beam of length 3 m is subjected to a uniformly varying load throughout its length, with an intensity of zero at the fixed end (A) to 4 kN/m at the free end (B). Calculate the value of shear force at A.

Ans
- ✗ 1. 12 kN
- ✗ 2. 4 kN
- ✓ 3. 6 kN
- ✗ 4. 8 kN

Question Type : **MCQ**
Question ID : **387868257**
Option 1 ID : **3878681004**
Option 2 ID : **3878681001**
Option 3 ID : **3878681002**
Option 4 ID : **3878681003**
Status : **Answered**
Chosen Option : **4**

**Q.89** If materials are carried from a distant place more than _____, then the cost of transport is also added to the rate of materials.

Ans
- ✗ 1. 1 kilometre
- ✗ 2. 5 kilometres
- ✓ 3. 8 kilometres
- ✗ 4. 3 kilometres

Question Type : **MCQ**
Question ID : **387868296**
Option 1 ID : **3878681157**
Option 2 ID : **3878681159**
Option 3 ID : **3878681160**
Option 4 ID : **3878681158**
Status : **Answered**
Chosen Option : **3**

**Q.90** Calculate Young's modulus of a material, whose bulk modulus is 80 GPa, modulus of rigidity is 40 GPa and Poisson's ratio is 0.25.

**Ans**
✗ 1. 80 GPa
✗ 2. 100 GPa
✗ 3. 140 GPa
✔ 4. 120 GPa

Question Type : **MCQ**
Question ID : **387868256**
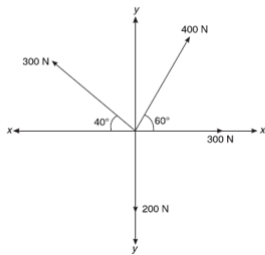Option 1 ID : **387868997**
Option 2 ID : **387868998**
Option 3 ID : **3878681000**
Option 4 ID : **387868999**
Status : **Answered**
Chosen Option : **2**

**Q.91** An object is subjected to a system of concurrent forces as shown in the given figure. Calculate the resolved component force 400 N in x direction.



**Ans**
✗ 1. 692.82 N
✗ 2. 400 N
✔ 3. 200 N
✗ 4. 346.41 N

Question Type : **MCQ**
Question ID : **387868303**
Option 1 ID : **3878681188**
Option 2 ID : **3878681187**
Option 3 ID : **3878681185**
Option 4 ID : **3878681186**
Status : **Answered**
Chosen Option : **1**

**Q.92** Which of the following statements are correct/incorrect with respect to maximum effective slenderness ratio for tension members (steel sections)?

Statement A: As per IS 800:2007, the maximum effective slenderness ratio for members which are always under tension (other than pretensioned members) is 400.

Statement B: In order to provide adequate rigidity to prevent undesirable lateral movement or excessive vibrations, design specifications usually limit slenderness ratio for tension members.

**Ans**

✔ 1. Both the statements are correct

✘ 2. Statement B is correct and A is incorrect

✘ 3. Statement A is correct and B is incorrect

✘ 4. Both the statements are incorrect

Question Type : **MCQ**
Question ID : **387868288**
Option 1 ID : **3878681127**
Option 2 ID : **3878681126**
Option 3 ID : **3878681125**
Option 4 ID : **3878681128**
Status : **Answered**
Chosen Option : **1**

**Q.93** Which of the following types of compacting equipment is most suited for compacting dry cohesion less granular materials?

**Ans**

✔ 1. Smooth wheeled vibratory rollers

✘ 2. Sheep foot rollers

✘ 3. Trucks

✘ 4. Spinning

Question Type : **MCQ**
Question ID : **387868284**
Option 1 ID : **3878681110**
Option 2 ID : **3878681111**
Option 3 ID : **3878681112**
Option 4 ID : **3878681109**
Status : **Answered**
Chosen Option : **1**

**Q.94** A plane truss is subjected to three-point loads as shown in the given figure. Calculate the axial force developed in member AB.
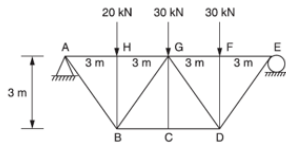


**Ans**

✗ 1. $25.5 \times \sqrt{2}$ kN (tension)

✓ 2. $37.5 \times \sqrt{2}$ kN (tension)

✗ 3. $42.5 \times \sqrt{2}$ kN (tension)

✗ 4. $56.5 \times \sqrt{2}$ kN (tension)

Question Type : **MCQ**
Question ID : **387868277**
Option 1 ID : **3878681083**
Option 2 ID : **3878681081**
Option 3 ID : **3878681082**
Option 4 ID : **3878681084**
Status : **Answered**
Chosen Option : **2**

**Q.95** Which of the following properties of cement shall be studied in the laboratory to check the time available to work with cement and other ingredients with it before placing it within formwork?

**Ans**

✓ 1. Initial setting time

✗ 2. Soundness

✗ 3. Consistency

✗ 4. Final setting time

Question Type : **MCQ**
Question ID : **387868259**
Option 1 ID : **3878681009**
Option 2 ID : **3878681012**
Option 3 ID : **3878681011**
Option 4 ID : **3878681010**
Status : **Answered**
Chosen Option : **1**

**Q.96** Which of the following is the correct unit of measurement for an item of work 'wood work in partition, ply wood etc.,'?

Ans
✗ 1. Cubic metre

✗ 2. Running metre

✔ 3. Square metre

✗ 4. Numbers

Question Type : **MCQ**
Question ID : **387868293**
Option 1 ID : **3878681146**
Option 2 ID : **3878681147**
Option 3 ID : **3878681148**
Option 4 ID : **3878681145**
Status : **Answered**
Chosen Option : **1**

**Q.97** Which of the following statements are correct/incorrect with respect to ecosystems?

Statement A: Ecosystems contain biotic or living parts such as plants, animals, and other organisms.

Statement B: Ecosystems contain abiotic or non-living parts such as rocks, temperature, and humidity.

Ans
✔ 1. Both the statements are correct

✗ 2. Statement B is correct and A is incorrect

✗ 3. Both the statements are incorrect

✗ 4. Statement A is correct and B is incorrect

Question Type : **MCQ**
Question ID : **387868297**
Option 1 ID : **3878681163**
Option 2 ID : **3878681162**
Option 3 ID : **3878681164**
Option 4 ID : **3878681161**
Status : **Answered**
Chosen Option : **1**

**Q.98** A simply supported beam made of reinforced cement concrete of width 200 mm and effective depth 500 mm was planned to provide for a structure. The clear distance between the lateral restraints shall not exceed _____ according to IS 456:2000 requirements on slenderness limits for beams to ensure lateral stability.

Ans
✗ 1. 9 m

✗ 2. 5 m

✗ 3. 7 m

✔ 4. 12 m

Question Type : **MCQ**
Question ID : **387868290**
Option 1 ID : **3878681135**
Option 2 ID : **3878681133**
Option 3 ID : **3878681134**
Option 4 ID : **3878681136**

**Q.99** Which of the following statements are correct/incorrect with respect to strength of tension members made of steel?

Statement A: The presence of holes in a tension member reduces its strength.

Statement B: The unit stress in a tension member calculated using net sectional area is less than that of gross sectional area.

**Ans** ✗ 1. Statement B is correct and A is incorrect

✗ 2. Both the statements are correct

✗ 3. Both the statements are incorrect

✔ 4. Statement A is correct and B is incorrect

Question Type : **MCQ**
Question ID : **387868287**
Option 1 ID : **3878681122**
Option 2 ID : **3878681123**
Option 3 ID : **3878681124**
Option 4 ID : **3878681121**
Status : **Answered**
Chosen Option : **2**

**Q.100** Identify the INCORRECT statement with respect to general shear failure.

**Ans** ✔ 1.
The ultimate bearing capacity of soil is not well defined in general failure.

✗ 2.
General shear failure has well defined failure surfaces, reaching up to ground surface.

✗ 3.
In general shear failure, considerable bulging of sheared mass of soil adjacent to the footing takes place.

✗ 4.
General shear failure is not sudden and there is no tilting of footing.

Question Type : **MCQ**
Question ID : **387868266**
Option 1 ID : **3878681039**
Option 2 ID : **3878681037**
Option 3 ID : **3878681038**
Option 4 ID : **3878681040**
Status : **Answered**
Chosen Option : **1**

| Participant ID | 123 |
|---|---|
| Participant Name | xyz |
| Test Center Name | iON Digital Zone IDZ Powai |
| Test Date | 09/08/2022 |
| Test Time | 9:00 AM - 10:30 AM |
| Subject | Cluster 1 |

Section : **English**

**Q.1** **Select the most appropriate option to fill in the blank.**

**She cried _____on the first day of school as everything was unfamiliar.**

Ans    ✗ 1. thoroughly

         ✔ 2. bitterly

         ✗ 3. properly

         ✗ 4. bravely

Question Type : **MCQ**
Question ID : **387868307**
Option 1 ID : **3878681204**
Option 2 ID : **3878681202**
Option 3 ID : **3878681203**
Option 4 ID : **3878681201**
Status : **Answered**
Chosen Option : **1**

**Q.2** **Select the most appropriate option to fill in the blank.**

**Vibha's decision to join the film industry took everyone _____surprise.**

Ans    ✗ 1. in

         ✗ 2. at

         ✔ 3. by

         ✗ 4. on

Question Type : **MCQ**
Question ID : **387868308**
Option 1 ID : **3878681205**
Option 2 ID : **3878681206**
Option 3 ID : **3878681208**
Option 4 ID : **3878681207**
Status : **Answered**

**Q.3** Select the most appropriate synonym of the given word.

**Procure**

Ans ✓ 1. Acquire

✗ 2. Arouse

✗ 3. Appeal

✗ 4. Amend

Question Type : **MCQ**

Question ID : **387868311**

Option 1 ID : **3878681217**

Option 2 ID : **3878681219**

Option 3 ID : **3878681218**

Option 4 ID : **3878681220**

Status : **Answered**

Chosen Option : **3**

**Q.4** Select the most appropriate meaning of the given idiom.

**Blow hot blow cold**

Ans ✗ 1. Enjoy rain and sunshine

✗ 2. Eat hot and cold food simultaneously

✗ 3. Rise and fall of fortune

✓ 4. Change one's mind constantly

Question Type : **MCQ**

Question ID : **387868312**

Option 1 ID : **3878681224**

Option 2 ID : **3878681221**

Option 3 ID : **3878681223**

Option 4 ID : **3878681222**

Status : **Answered**

Chosen Option : **3**

**Q.5** Select the most appropriate option to fill in the blank.

**She _____ the heavy weight with the ease of a professional.**

Ans ✗ 1. had been lifted

✗ 2. had lifting

✗ 3. were lifting

✓ 4. lifted

Question Type : **MCQ**

Question ID : **387868309**

Option 1 ID : **3878681212**

Option 2 ID : **3878681210**

Option 3 ID : **3878681209**

Option 4 ID : **3878681211**

Status : **Answered**

Chosen Option : **4**

**Q.6** Select the most appropriate ANTONYM of the given word.

**Retreat**

**Ans** ✖ 1. Withdrawal

✖ 2. Flight

✔ 3. Advance

✖ 4. Retire

Question Type : **MCQ**

Question ID : **387868310**

Option 1 ID : **3878681214**

Option 2 ID : **3878681215**

Option 3 ID : **3878681216**

Option 4 ID : **3878681213**

Status : **Answered**

Chosen Option : **1**

**Q.7** Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A.Normally, domestic demand goes up during major festivals such as Diwali, Dussehra and Eid.
B.Colour, size and aroma are the major variables that shape cardamom prices in the Indian market.
C.North India is the main market for cardamom produced in the country.
D.Cardamom price formation in India is also influenced by the output in Guatemala as that country controls the global markets.

**Ans** ✖ 1. ABCD

✖ 2. BCDA

✔ 3. CABD

✖ 4. DABC

Question Type : **MCQ**

Question ID : **387868313**

Option 1 ID : **3878681225**

Option 2 ID : **3878681228**

Option 3 ID : **3878681227**

Option 4 ID : **3878681226**

Status : **Answered**

Chosen Option : **3**

**Comprehension:**

Read the given passage and answer the questions that follow.

Charlie Chaplin took his first bow on stage when his mother made her last appearance. It happened when her voice broke during a song. Her son stepped on stage and sang a popular song. That's when a star was born.
Through all these years of success, Charlie never forgot his troubled childhood. It made him recall a Christmas when he was denied two oranges and his bag of sweets for breaking a rule at the orphanage he went to after his mother's death. It would have broken his heart, if the other children had not offered him a share of theirs. Spontaneously, the adult Chaplin gifted the orphanage with a motion picture machine and insisted that each child should have as many oranges and sweets as they pleased.

**SubQuestion No : 8**

**Q.8  Charlie Chaplin first took a place on the stage:**

**Ans**  ✔️ 1. to sing in place of his mother

❌ 2. to entertain kids at the orphanage

❌ 3. during the shooting of a motion picture

❌ 4. after his mother passed away

**Comprehension:**

Read the given passage and answer the questions that follow.

Charlie Chaplin took his first bow on stage when his mother made her last appearance. It happened when her voice broke during a song. Her son stepped on stage and sang a popular song. That's when a star was born.
Through all these years of success, Charlie never forgot his troubled childhood. It made him recall a Christmas when he was denied two oranges and his bag of sweets for breaking a rule at the orphanage he went to after his mother's death. It would have broken his heart, if the other children had not offered him a share of theirs. Spontaneously, the adult Chaplin gifted the orphanage with a motion picture machine and insisted that each child should have as many oranges and sweets as they pleased.

**SubQuestion No : 9**

**Q.9  Select the most appropriate synonym of the word**

**'denied'.**

**Ans**  ❌ 1. Offered

❌ 2. Allowed

❌ 3. Insisted

✔️ 4. Refused

**Comprehension:**

Read the given passage and answer the questions that follow.

Charlie Chaplin took his first bow on stage when his mother made her last appearance. It happened when her voice broke during a song. Her son stepped on stage and sang a popular song. That's when a star was born.

Through all these years of success, Charlie never forgot his troubled childhood. It made him recall a Christmas when he was denied two oranges and his bag of sweets for breaking a rule at the orphanage he went to after his mother's death. It would have broken his heart, if the other children had not offered him a share of theirs. Spontaneously, the adult Chaplin gifted the orphanage with a motion picture machine and insisted that each child should have as many oranges and sweets as they pleased.

**SubQuestion No : 10**

**Q.10 The above passage is:**

Ans  ✘ 1. an excerpt from a novel

   ✔ 2. a biography

   ✘ 3. a news item

   ✘ 4. an autobiography

Question Type : **MCQ**
Question ID : **387868316**
Option 1 ID : **3878681236**
Option 2 ID : **3878681234**
Option 3 ID : **3878681235**
Option 4 ID : **3878681233**
Status : **Answered**
Chosen Option : **1**

Section : **Marathi**

**Q.11 भक्तांसाठी पंढरपूरला विठ्ठल अठ्ठावीस युगे विटेवर उभा आहे. या वाक्यातील विशेषण ओळखा.**

Ans  ✘ 1. भक्तांसाठी

   ✘ 2. विठ्ठल

   ✔ 3. अठ्ठावीस

   ✘ 4. उभा

Question Type : **MCQ**
Question ID : **387868319**
Option 1 ID : **3878681246**
Option 2 ID : **3878681247**
Option 3 ID : **3878681248**
Option 4 ID : **3878681245**
Status : **Answered**
Chosen Option : **4**

**Q.12** एखाद्याची वस्तू घेऊन त्यालाच देऊन टाकणे. या अर्थाची म्हण शोधा.

**Ans**
- ✗ 1. न खात्या देवाला नैवेद्य
- ✗ 2. खाई त्याला खवखवे
- ✗ 3. कोल्ह्याला द्राक्षे आंबट
- ✓ 4. गुळाचा गणपती गुळाचा नैवेद्य

Question Type : **MCQ**
Question ID : **387868323**
Option 1 ID : **3878681263**
Option 2 ID : **3878681264**
Option 3 ID : **3878681261**
Option 4 ID : **3878681262**
Status : **Answered**
Chosen Option : **4**

**Q.13** पुढीलपैकी अचूक वाक्यरचना कोणती आहे?

**Ans**
- ✗ 1. पुस्तकाच्या त्याच्या मुखपृष्ठावर चित्र काढलेले फार छान होते.
- ✗ 2. त्याच्या पुस्तकाच्या मुखपृष्ठावर छान फार चित्र काढलेले होते.
- ✓ 3. त्याच्या पुस्तकाच्या मुखपृष्ठावर फार छान चित्र काढलेले होते.
- ✗ 4. छान चित्र काढलेले त्याच्या मुखपृष्ठावर पुस्तकाच्या होते फार.

Question Type : **MCQ**
Question ID : **387868324**
Option 1 ID : **3878681265**
Option 2 ID : **3878681268**
Option 3 ID : **3878681267**
Option 4 ID : **3878681266**
Status : **Answered**
Chosen Option : **3**

**Q.14** त्याने लाडू खाल्ला असेल. या वाक्याचे पूर्ण वर्तमानकाळातील रूप कोणते आहे ?

**Ans**
- ✗ 1. त्याने लाडू खाल्ला होता.
- ✗ 2. तो लाडू खाईल.
- ✓ 3. त्याने लाडू खाल्ला आहे.
- ✗ 4. तो लाडू खात आहे.

Question Type : **MCQ**
Question ID : **387868320**
Option 1 ID : **3878681251**
Option 2 ID : **3878681252**
Option 3 ID : **3878681249**
Option 4 ID : **3878681250**
Status : **Answered**
Chosen Option : **4**

**Q.15** 'चंचल' शब्दाचा विरुद्धार्थी शब्द कोणता?

Ans  ✔ 1. स्थिर

  ✘ 2. सैल

  ✘ 3. टंचाई

  ✘ 4. मृदू

Question Type : **MCQ**

Question ID : **387868322**

Option 1 ID : **3878681259**

Option 2 ID : **3878681257**

Option 3 ID : **3878681258**

Option 4 ID : **3878681260**

Status : **Answered**

Chosen Option : **1**

**Q.16** पुढील शब्दांमधून 'कमळ' शब्दाचा समानार्थी नसलेला शब्द कोणता?

Ans  ✘ 1. अंबुज

  ✔ 2. अनुज

  ✘ 3. नीरज

  ✘ 4. पंकज

Question Type : **MCQ**

Question ID : **387868321**

Option 1 ID : **3878681253**

Option 2 ID : **3878681256**

Option 3 ID : **3878681254**

Option 4 ID : **3878681255**

Status : **Answered**

Chosen Option : **1**

**Q.17** पुढील वाक्यातील शब्दयोगी अव्यय ओळखा....कनकने आज स्वातंत्र्याविषयी विचार व्यक्त केले.

Ans  ✘ 1. आज

  ✔ 2. विषयी

  ✘ 3. कनकने

  ✘ 4. व्यक्त

Question Type : **MCQ**

Question ID : **387868318**

Option 1 ID : **3878681241**

Option 2 ID : **3878681244**

Option 3 ID : **3878681242**

Option 4 ID : **3878681243**

Status : **Answered**

Chosen Option : **3**

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या.

ज्ञानेश्वर महाराजांनी ज्ञानेश्वरीमध्ये संतांना सागराची उपमा दिली आहे. त्यांनी संतांना अर्णव असे संबोधले आहे. समुद्र आपली जागा सोडू शकत नाही, पण संत मात्र कुठेही जाऊ शकतात. समुद्र मंथनातून अमृताबरोबर विषही बाहेर पडले, पण संतांना कितीही त्रास दिला तरी त्यांच्या तोंडून अपशब्द निघत नाहीत. ज्ञानदेवांनी सुद्धा त्यांच्या मातापित्यांना, भावंडांना त्रास देणाऱ्याविषयी कुठेच अपशब्द उच्चारले नाहीत. हेच संतांचे वैशिष्ट्य आहे. दुःख देणाऱ्याचेही त्यांच्या संगतीने कल्याणच होते. त्यामुळे ते कल्पतरूच होत.

वाल्या कोळी एक लुटारू होता, पण नारद मुनींच्या सहवासात आल्यानंतर त्याचा वाल्मिकी ऋषी झाला,आणि तो अलौकिक अशा रामायणाचा कर्ता झाला. वाल्याने त्यांना बांधून ठेवले, त्यांच्यावर कुऱ्हाड उगारली. तरीही ते शांत राहून त्याला कल्याणकारी उपदेश करत राहिले. वाल्या कोळ्याला आपले जीवन कृतार्थ करण्यासाठी ज्ञानाचा प्रकाश दाखवला .

**SubQuestion No : 18**

**Q.18 वाल्मिकीच्या ग्रंथाचे नाव काय?**

Ans    ❌ 1. महाभारत

      ❌ 2. ज्ञानेश्वरी

      ✅ 3. रामायण

      ❌ 4. रघुवंश

Question Type : **MCQ**
Question ID : **387868326**
Option 1 ID : **3878681271**
Option 2 ID : **3878681269**
Option 3 ID : **3878681270**
Option 4 ID : **3878681272**
Status : **Answered**
Chosen Option : **3**

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या.

ज्ञानेश्वर महाराजांनी ज्ञानेश्वरीमध्ये संतांना सागराची उपमा दिली आहे. त्यांनी संतांना अर्णव असे संबोधले आहे. समुद्र आपली जागा सोडू शकत नाही, पण संत मात्र कुठेही जाऊ शकतात. समुद्र मंथनातून अमृताबरोबर विषही बाहेर पडले, पण संतांना कितीही त्रास दिला तरी त्यांच्या तोंडून अपशब्द निघत नाहीत. ज्ञानदेवांनी सुद्धा त्यांच्या मातापित्यांना, भावंडांना त्रास देणाऱ्याविषयी कुठेच अपशब्द उच्चारले नाहीत. हेच संतांचे वैशिष्ट्य आहे. दुःख देणाऱ्याचेही त्यांच्या संगतीने कल्याणच होते. त्यामुळे ते कल्पतरूच होत.

वाल्या कोळी एक लुटारू होता, पण नारद मुनींच्या सहवासात आल्यानंतर त्याचा वाल्मिकी ऋषी झाला,आणि तो अलौकिक अशा रामायणाचा कर्ता झाला. वाल्याने त्यांना बांधून ठेवले, त्यांच्यावर कुऱ्हाड उगारली. तरीही ते शांत राहून त्याला कल्याणकारी उपदेश करत राहिले. वाल्या कोळ्याला आपले जीवन कृतार्थ करण्यासाठी ज्ञानाचा प्रकाश दाखवला .

**SubQuestion No : 19**

**Q.19 ' सर्व इच्छा पूर्ण करणारा काल्पनिक वृक्ष ' म्हणजे कोण ते सांगा.**

Ans    ❌ 1. मंथन

      ✅ 2. कल्पतरू

      ❌ 3. कृतार्थ

      ❌ 4. अलौकिक

Question Type : **MCQ**
Question ID : **387868328**
Option 1 ID : **3878681280**
Option 2 ID : **3878681279**
Option 3 ID : **3878681278**

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या.

ज्ञानेश्वर महाराजांनी ज्ञानेश्वरीमध्ये संतांना सागराची उपमा दिली आहे. त्यांनी संतांना अर्णव असे संबोधले आहे. समुद्र आपली जागा सोडू शकत नाही, पण संत मात्र कुठेही जाऊ शकतात. समुद्र मंथनातून अमृताबरोबर विषही बाहेर पडले, पण संतांना कितीही त्रास दिला तरी त्यांच्या तोंडून अपशब्द निघत नाहीत. ज्ञानदेवांनी सुद्धा त्यांच्या मातापित्यांना, भावंडांना त्रास देण्याविषयी कुठेच अपशब्द उच्चारले नाहीत. हेच संतांचे वैशिष्ट्य आहे. दुःख देणाऱ्याचेही त्यांच्या संगतीने कल्याणच होते. त्यामुळे ते कल्पतरूच होत.

वाल्या कोळी एक लुटारू होता, पण नारद मुनींच्या सहवासात आल्यानंतर त्याचा वाल्मिकी ऋषी झाला,आणि तो अलौकिक अशा रामायणाचा कर्ता झाला. वाल्याने त्यांना बांधून ठेवले, त्यांच्यावर कुन्हाड उगारली. तरीही ते शांत राहून त्याला कल्याणकारी उपदेश करत राहिले. वाल्या कोळ्याला आपले जीवन कृतार्थ करण्यासाठी ज्ञानाचा प्रकाश दाखवला .

**SubQuestion No : 20**

**Q.20 समुद्र या शब्दाचा उताऱ्यातील समानार्थी शब्द शोधा.**

Ans  ✗ 1. कल्याण

✗ 2. अमृत

✓ 3. अर्णव

✗ 4. उपदेश

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868327** |
| Option 1 ID : | **3878681273** |
| Option 2 ID : | **3878681276** |
| Option 3 ID : | **3878681275** |
| Option 4 ID : | **3878681274** |
| Status : | **Answered** |
| Chosen Option : | **2** |

Section : **General Knowledge**

**Q.21 In which of the following districts of Maharashtra is Gugamal National Park situated?**

Ans  ✗ 1. Ahmednagar district

✗ 2. Thane district

✗ 3. Sangli district

✓ 4. Amravati district

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868337** |
| Option 1 ID : | **3878681316** |
| Option 2 ID : | **3878681313** |
| Option 3 ID : | **3878681315** |
| Option 4 ID : | **3878681314** |
| Status : | **Answered** |
| Chosen Option : | **3** |

**Q.22** In February 2022, the Railway Protection Force has launched Operation AAHT to curb _____.

**Ans** ✔ 1. human trafficking

✘ 2. noise pollution

✘ 3. poverty

✘ 4. drugs smuggling

Question Type : **MCQ**

Question ID : **387868330**

Option 1 ID : **3878681286**

Option 2 ID : **3878681287**

Option 3 ID : **3878681285**

Option 4 ID : **3878681288**

Status : **Answered**

Chosen Option : **4**

---

**Q.23** In June 2022, RBI decided to increase the aforesaid AFA limit from ₹5,000 to _____ per transaction for e-mandates on cards, prepaid payment instruments (PPIs) and UPI for recurring transactions.

**Ans** ✘ 1. ₹10,000

✔ 2. ₹15,000

✘ 3. ₹20,000

✘ 4. ₹12,000

Question Type : **MCQ**

Question ID : **387868333**

Option 1 ID : **3878681297**

Option 2 ID : **3878681299**

Option 3 ID : **3878681300**

Option 4 ID : **3878681298**

Status : **Answered**

Chosen Option : **1**

---

**Q.24** Which of the following countries participated in the NATO summit for the first time in June 2022?

**Ans** ✔ 1. Japan

✘ 2. Denmark

✘ 3. Estonia

✘ 4. Germany

Question Type : **MCQ**

Question ID : **387868329**

Option 1 ID : **3878681281**

Option 2 ID : **3878681282**

Option 3 ID : **3878681284**

Option 4 ID : **3878681283**

Status : **Answered**

Chosen Option : **2**

**Q.25** Maharashtra legislative council was founded on:

Ans   ✗ 1. 1 June 1960

     ✗ 2. 1 July 1960

     ✗ 3. 1 April 1960

     ✓ 4. 1 May 1960

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868335** |
| Option 1 ID : | **3878681306** |
| Option 2 ID : | **3878681308** |
| Option 3 ID : | **3878681305** |
| Option 4 ID : | **3878681307** |
| Status : | **Answered** |
| Chosen Option : | **1** |

**Q.26** The population of Maharashtra forms _____ of the population of India in 2011.

Ans   ✗ 1. 9.16%

     ✗ 2. 9.08%

     ✗ 3. 9.90%

     ✓ 4. 9.28%

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868338** |
| Option 1 ID : | **3878681319** |
| Option 2 ID : | **3878681320** |
| Option 3 ID : | **3878681318** |
| Option 4 ID : | **3878681317** |
| Status : | **Answered** |
| Chosen Option : | **3** |

**Q.27** Which of the following wildlife sanctuaries is NOT situated in Maharashtra?

Ans   ✗ 1. Bhamragarh Wildlife sanctuary

     ✗ 2. Chaprala Wildlife sanctuary

     ✓ 3. Binsar Wildlife Sanctuary

     ✗ 4. Bor Wildlife sanctuary

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868336** |
| Option 1 ID : | **3878681312** |
| Option 2 ID : | **3878681309** |
| Option 3 ID : | **3878681310** |
| Option 4 ID : | **3878681311** |
| Status : | **Answered** |
| Chosen Option : | **2** |

**Q.28** In February 2022, the Global Centre of Excellence in Affordable and Clean energy was launched at IIT Dharwad. This IIT is situated in which of the following states?

**Ans**
- ✗ 1. Bihar
- ✗ 2. Uttar Pradesh
- ✗ 3. Maharashtra
- ✓ 4. Karnataka

Question Type : **MCQ**
Question ID : **387868331**
Option 1 ID : **3878681289**
Option 2 ID : **3878681290**
Option 3 ID : **3878681291**
Option 4 ID : **3878681292**
Status : **Answered**
Chosen Option : **4**

**Q.29** Which of the following small finance banks is set to launch a kids' savings account called ENJOI?

**Ans**
- ✓ 1. Equitas Small Finance Bank
- ✗ 2. Jana Small Finance Bank
- ✗ 3. Ujjivan Small Finance Bank
- ✗ 4. AU Small Finance Bank

Question Type : **MCQ**
Question ID : **387868332**
Option 1 ID : **3878681294**
Option 2 ID : **3878681296**
Option 3 ID : **3878681295**
Option 4 ID : **3878681293**
Status : **Answered**
Chosen Option : **3**

**Q.30** The Maharashtra Public Service Commission (MPSC) is a body created by the Constitution of India under:

**Ans**
- ✗ 1. Article 328
- ✗ 2. Article 405
- ✓ 3. Article 315
- ✗ 4. Article 220

Question Type : **MCQ**
Question ID : **387868334**
Option 1 ID : **3878681302**
Option 2 ID : **3878681304**
Option 3 ID : **3878681301**
Option 4 ID : **3878681303**
Status : **Answered**
Chosen Option : **1**

Section : **Logical Ability**

**Q.31** Consider the Venn diagram below and answer the question which follows.
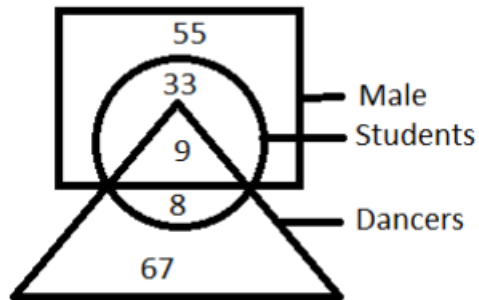


How many male students are not dancers?

Ans   ✗ 1. 9

  ✓ 2. 33

  ✗ 3. 8

  ✗ 4. 88

Question Type : **MCQ**

Question ID : **387868341**

Option 1 ID : **3878681330**

Option 2 ID : **3878681332**

Option 3 ID : **3878681329**

Option 4 ID : **3878681331**

Status : **Answered**

Chosen Option : **3**

**Q.32** After an examination, Anvita ranked 9th from the top. She is 4 ranks above her friend Sansh who ranked 9th from the bottom. How many students appeared in the examination?
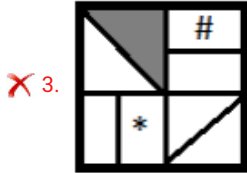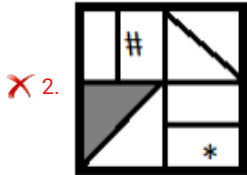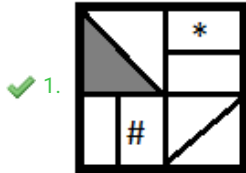
Ans   ✓ 1. 21

  ✗ 2. 25

  ✗ 3. 23

  ✗ 4. 19

Question Type : **MCQ**

Question ID : **387868340**

Option 1 ID : **3878681326**

Option 2 ID : **3878681328**

Option 3 ID : **3878681327**

Option 4 ID : **3878681325**

Status : **Answered**

Chosen Option : **4**

**Q.33**

Select the figure that will come next in the following series.



**Ans**

  ✔ 1.

  ✘ 2.

  ✘ 3.

  ✘ 4.
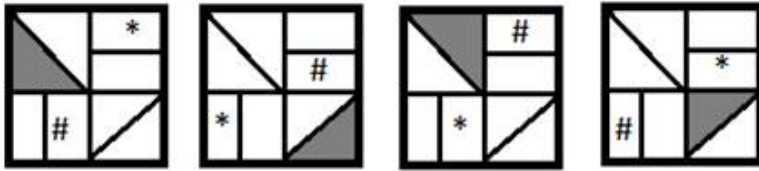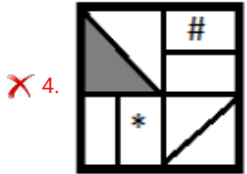
Question Type : **MCQ**
Question ID : **387868348**
Option 1 ID : **3878681359**
Option 2 ID : **3878681360**
Option 3 ID : **3878681358**
Option 4 ID : **3878681357**
Status : **Answered**
Chosen Option : **3**

**Q.34** A family of five members is travelling in a car. B's sister C is married to D who is E's father. E is A's sister who is C's son. Based on the above information, which of the following statements is NOT correct?

**Ans** ✗ 1. A is E's brother.

✓ 2. C has two sons.

✗ 3. E is C's daughter.

✗ 4. D is B's brother in law.

Question Type : **MCQ**
Question ID : **387868347**
Option 1 ID : **3878681355**
Option 2 ID : **3878681356**
Option 3 ID : **3878681353**
Option 4 ID : **3878681354**
Status : **Answered**
Chosen Option : **4**

**Q.35** Select the combination of letters that when sequentially placed in the blanks of the given series will create a repetitive pattern.

M_ _MN_ _ _ TMNP_ _ _ MNPMTT_ _ _

**Ans** ✗ 1. TMTTPMTTMNP

✗ 2. TTPMTMNPTMT

✗ 3. TTPMTTMTMNP

✓ 4. TTPMTMTTMNP

Question Type : **MCQ**
Question ID : **387868343**
Option 1 ID : **3878681338**
Option 2 ID : **3878681340**
Option 3 ID : **3878681339**
Option 4 ID : **3878681337**
Status : **Answered**
Chosen Option : **4**

**Q.36** Read the given statements and conclusions carefully, and decide which of the given conclusions is/are true based on the given statement.

**Statements:**
**D ≥ Q > X**
**Q = O > S < U**

**Conclusions:**
**I.D < S**
**II.X < S**

Ans ❌ 1. Both conclusions I and II are true

✅ 2. Neither conclusion I nor II is true

❌ 3. Only conclusion II is true

❌ 4. Only conclusion I is true

Question Type : **MCQ**
Question ID : **387868342**
Option 1 ID : **3878681335**
Option 2 ID : **3878681336**
Option 3 ID : **3878681334**
Option 4 ID : **3878681333**
Status : **Answered**
Chosen Option : **1**

**Q.37** If all the numbers of the following letter-number-symbol series is written in decreasing order without changing the places of letters and symbols, how many symbols in the new arrangement will be preceded by an even number and followed by a letter?

A, 3, D, @, S, 3 , 4, D , ^, J 9, 8, G, T, 4, ^, D, ^, !, E, 4, G, F, &, 9, 6

Ans ❌ 1. 3

✅ 2. 1

❌ 3. 0

❌ 4. 2

Question Type : **MCQ**
Question ID : **387868344**
Option 1 ID : **3878681344**
Option 2 ID : **3878681342**
Option 3 ID : **3878681341**
Option 4 ID : **3878681343**
Status : **Answered**
Chosen Option : **1**

**Q.38** Eight students P, Q, R, S, T, U, V and W are sitting around a squared table but not necessarily in the same order. Four of them are sitting on the four corners while the other four are sitting on the four sides of the table. P and Q are sitting diagonally opposite each other. S is sitting between P and W and V is sitting between W and Q. R is sitting opposite V and U is sitting opposite S. Where Is T sitting?

**Ans** ✓ 1. Between R and U

✗ 2. Opposite to U

✗ 3. Between R and P

✗ 4. Between Q and U

Question Type : **MCQ**
Question ID : **387868339**
Option 1 ID : **3878681323**
Option 2 ID : **3878681321**
Option 3 ID : **3878681322**
Option 4 ID : **3878681324**
Status : **Answered**
Chosen Option : **2**

**Q.39** If the first and last digits in each of the following five numbers are exchanged and all the numbers than are written in increasing orders, which of the following numbers will be in the middle?

**346, 836, 844, 274, 285**

**Ans** ✓ 1. 285

✗ 2. 274

✗ 3. 346

✗ 4. 844

Question Type : **MCQ**
Question ID : **387868345**
Option 1 ID : **3878681346**
Option 2 ID : **3878681347**
Option 3 ID : **3878681348**
Option 4 ID : **3878681345**
Status : **Answered**
Chosen Option : **3**

**Q.40** In a certain code language, 'ISHA' is written as 'BJLW' and 'DISHA' is written as 'BFKMX'. How will TRISHA be written in that same language?

**Ans** ✗ 1. BKLVXZ

✓ 2. BJLVXZ

✗ 3. BJKVXZ

✗ 4. BJKWXZ

Question Type : **MCQ**
Question ID : **387868346**
Option 1 ID : **3878681351**
Option 2 ID : **3878681350**
Option 3 ID : **3878681352**
Option 4 ID : **3878681349**
Status : **Answered**

**Q.41** According to IS 1077-1992, the size of a standard burnt clay brick (also known as a modular brick) in brick masonry work without mortar is:

**Ans** ✔ 1. $19 \times 9 \times 9$ cm

✘ 2. $19 \times 9 \times 6$ cm

✘ 3. $20 \times 10 \times 10$ cm

✘ 4. $22 \times 12 \times 12$ cm

Question Type : **MCQ**
Question ID : **387868349**
Option 1 ID : **3878681361**
Option 2 ID : **3878681364**
Option 3 ID : **3878681362**
Option 4 ID : **3878681363**
Status : **Answered**
Chosen Option : **1**

**Q.42** What does M20 grade concrete refer to?

**Ans** ✔ 1.
The concrete whose cube strength in 28 day's standard curing is 20 N/mm$^2$ and the maximum size of coarse aggregate used is 20 mm.

✘ 2.
The concrete whose cube strength in 7 day's standard curing is 20 N/mm$^2$ and the maximum size of coarse aggregate used is 10 mm.

✘ 3.
The concrete whose cube strength in 21 day's standard curing is 20 N/mm$^2$ and the maximum size of coarse aggregate used is 20 mm.

✘ 4.
The concrete whose cube strength in 14 day's standard curing is 20 N/mm$^2$ and the maximum size of coarse aggregate used is 15 mm.

Question Type : **MCQ**
Question ID : **387868363**
Option 1 ID : **3878681420**
Option 2 ID : **3878681417**
Option 3 ID : **3878681419**
Option 4 ID : **3878681418**
Status : **Answered**
Chosen Option : **3**

**Q.43** As per IS 456 :2000, the minimum number of longitudinal steel bars that can be placed in a circular column is _____.

**Ans** ✔ 1. 6

✘ 2. 10

✘ 3. 8

✘ 4. 4

Question Type : **MCQ**
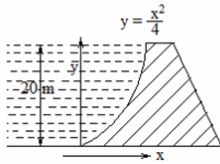Question ID : **387868391**
Option 1 ID : **3878681530**
Option 2 ID : **3878681532**
Option 3 ID : **3878681531**

Chosen Option : **1**

**Q.44** A dam is having a curved surface as shown in the given figure. The height of the water retained by the dam is 20 m. The density of the water is 1000 kg/m$^3$ and assumes acceleration due to gravity equal to 10 m/s$^2$. What is the horizontal force acting on the dam per unit length?



**Ans**

✔ 1. 2000 kN

✘ 2. 1500 kN

✘ 3. 1700 kN

✘ 4. 1850 kN

Question Type : **MCQ**
Question ID : **387868371**
Option 1 ID : **3878681452**
Option 2 ID : **3878681449**
Option 3 ID : **3878681450**
Option 4 ID : **3878681451**
Status : **Answered**
Chosen Option : **2**

**Q.45** As per IRC recommendations, which of the following types of road surface requires the steepest cross slope (Camber) so that water on its surface is drained out quickly?

**Ans**

✘ 1. Cement concrete surface

✔ 2. Earth surface

✘ 3. Thin bituminous surface

✘ 4. Water bound macadam surface

Question Type : **MCQ**
Question ID : **387868393**
Option 1 ID : **3878681537**
Option 2 ID : **3878681538**
Option 3 ID : **3878681540**
Option 4 ID : **3878681539**
Status : **Answered**
Chosen Option : **4**

**Q.46** A target road length of _____ is aimed at the end of the Nagpur road plan.

Ans ✗ 1. 20 km per 100 sq. km area of the country

✓ 2. 16 km per 100 sq. km area of the country

✗ 3. 25 km per 100 sq. km area of the country

✗ 4. 10 km per 100 sq. km area of the country

Question Type : **MCQ**
Question ID : **387868384**
Option 1 ID : **3878681503**
Option 2 ID : **3878681502**
Option 3 ID : **3878681504**
Option 4 ID : **3878681501**
Status : **Answered**
Chosen Option : **4**

---

**Q.47** One bag of cement is taken as approximately _____ litres in volume in concrete mix design based on volume batching.

Ans ✓ 1. 35

✗ 2. 28

✗ 3. 25

✗ 4. 45

Question Type : **MCQ**
Question ID : **387868362**
Option 1 ID : **3878681415**
Option 2 ID : **3878681414**
Option 3 ID : **3878681413**
Option 4 ID : **3878681416**
Status : **Answered**
Chosen Option : **2**

---

**Q.48** Which of the following specifications is related to the sanitary landfill of municipal solid waste?

Ans ✓ 1.
The refuse is dumped and compacted in layers of about 0.5 m thickness and when the total depth of fill becomes 1.5 m, it should be covered with good earth of 15 cm thickness.

✗ 2.
The process of cutting and tearing refuse into small pieces and then crushing and grinding the refuse.

✗ 3.
The decomposition of refuse using various species of worms, usually red wigglers, white worms, etc. to convert to manure.

✗ 4.
The burning of refuse at a high temperature in a furnace such that only combustible matters are burnt.

Question Type : **MCQ**
Question ID : **387868400**
Option 1 ID : **3878681566**
Option 2 ID : **3878681568**
Option 3 ID : **3878681567**
Option 4 ID : **3878681565**
Status : **Answered**

**Q.49** Which type of concrete is resistant to chemical attack, particularly in marine conditions?

**Ans**
- ✗ 1. Ordinary Portland cement concrete
- ✗ 2. Air entraining cement concrete
- ✓ 3. High alumina cement concrete
- ✗ 4. Low heat cement concrete

Question Type : **MCQ**
Question ID : **387868361**
Option 1 ID : **3878681409**
Option 2 ID : **3878681410**
Option 3 ID : **3878681412**
Option 4 ID : **3878681411**
Status : **Answered**
Chosen Option : **3**

**Q.50** Which type of stabilization is very effective in treating heavy, plastic clayey soils?

**Ans**
- ✓ 1. Lime stabilization
- ✗ 2. Bitumen stabilization
- ✗ 3. Mechanical stabilization
- ✗ 4. Magnetized stabilization

Question Type : **MCQ**
Question ID : **387868368**
Option 1 ID : **3878681437**
Option 2 ID : **3878681438**
Option 3 ID : **3878681439**
Option 4 ID : **3878681440**
Status : **Answered**
Chosen Option : **1**

**Q.51** Which of the following is the correct sequence of construction stages under construction planning?

**Ans**
- ✓ 1.
  Briefing -> Designing -> Tendering -> Construction -> Commissioning
- ✗ 2.
  Briefing -> Tendering -> Designing -> Construction -> Commissioning
- ✗ 3.
  Designing -> Tendering -> Construction -> Briefing -> Commissioning
- ✗ 4.
  Designing -> Briefing -> Tendering -> Construction -> Commissioning

Question Type : **MCQ**
Question ID : **387868380**
Option 1 ID : **3878681488**
Option 2 ID : **3878681486**
Option 3 ID : **3878681487**
Option 4 ID : **3878681485**
Chosen Option : **2**

**Q.52** A fully saturated soil sample has a water content of 30% and specific gravity of 2.5. What is the void ratio of the soil sample?

**Ans**
- ✔ 1. 75%
- ✘ 2. 80%
- ✘ 3. 90%
- ✘ 4. 85%

Question Type : **MCQ**
Question ID : **387868366**
Option 1 ID : **3878681429**
Option 2 ID : **3878681430**
Option 3 ID : **3878681432**
Option 4 ID : **3878681431**
Status : **Answered**
Chosen Option : **4**

**Q.53** The shear strength of a cohesionless soil is:

**Ans**
- ✔ 1.
directly proportional to the tangent of the angle of shearing resistance
- ✘ 2. directly proportional to the angle of shearing resistance
- ✘ 3.
inversely proportional to the tangent of the angle of shearing resistance
- ✘ 4. inversely proportional to the angle of shearing resistance

Question Type : **MCQ**
Question ID : **387868367**
Option 1 ID : **3878681435**
Option 2 ID : **3878681433**
Option 3 ID : **3878681436**
Option 4 ID : **3878681434**
Status : **Answered**
Chosen Option : **1**

**Q.54** The entire collection of water over the earth as well as inside the earth is called:

**Ans**
- ✔ 1. hydrosphere
- ✘ 2. biosphere
- ✘ 3. atmosphere
- ✘ 4. troposphere

Question Type : **MCQ**
Question ID : **387868401**
Option 1 ID : **3878681572**
Option 2 ID : **3878681569**
Option 3 ID : **3878681570**
Option 4 ID : **3878681571**
Status : **Answered**

**Q.55** The slump test is used measure the _____ property of fresh concrete in the field.

Ans  ✗ 1. hardness

✗ 2. durability

✗ 3. strength

✓ 4. workability

Question Type : **MCQ**
Question ID : **387868364**
Option 1 ID : **3878681423**
Option 2 ID : **3878681422**
Option 3 ID : **3878681421**
Option 4 ID : **3878681424**
Status : **Answered**
Chosen Option : **1**

**Q.56** A worm and worm wheel with 40 teeth on the worm wheel has effort wheel of 300 mm diameter and load drum of 100 mm diameter. Find the efficiency of the machine, if it can lift a load of 1800 N with an effort of 18 N.

Ans  ✓ 1. 83.33%

✗ 2. 65.33%

✗ 3. 88.33%

✗ 4. 76.33%

Question Type : **MCQ**
Question ID : **387868408**
Option 1 ID : **3878681599**
Option 2 ID : **3878681597**
Option 3 ID : **3878681600**
Option 4 ID : **3878681598**
Status : **Answered**
Chosen Option : **3**

**Q.57** Find the value of the plastic limit of a soil sample, if its liquid limit is 25% and plasticity index is 16%.

Ans  ✗ 1. 1.56%

✗ 2. 41%

✗ 3. 12%

✓ 4. 9%

Question Type : **MCQ**
Question ID : **387868403**
Option 1 ID : **3878681579**
Option 2 ID : **3878681580**
Option 3 ID : **3878681577**
Option 4 ID : **3878681578**
Status : **Answered**
Chosen Option : **1**

**Q.58** A reinforced concrete circular section of 50000 mm$^2$ cross sectional area carries 6 reinforcing bars whose total area is 500 mm$^2$. Find the safe load the column can carry, if the concrete is not to be stressed more than 3 MPa. Take the modular ratio for steel and concrete as 20.

**Ans** ✗ 1. 148.5 kN

✔ 2. 178.5 kN

✗ 3. 186.5 kN

✗ 4. 198.5 kN

Question Type : **MCQ**
Question ID : **387868360**
Option 1 ID : **3878681405**
Option 2 ID : **3878681406**
Option 3 ID : **3878681407**
Option 4 ID : **3878681408**
Status : **Answered**
Chosen Option : **2**

**Q.59** Critical depth in an open channel is defined as:

**Ans** ✗ 1. the depth of flow at which hydraulic mean radius is minimum

✗ 2. the depth flow at which hydraulic gradient is minimum

✔ 3. the depth of flow at which specific energy is minimum

✗ 4. the depth of flow at which total energy is minimum

Question Type : **MCQ**
Question ID : **387868373**
Option 1 ID : **3878681460**
Option 2 ID : **3878681459**
Option 3 ID : **3878681458**
Option 4 ID : **3878681457**
Status : **Answered**
Chosen Option : **1**

**Q.60** The centroid ($\bar{x}, \bar{y}$) of the L-section shown in the given figure from the reference axes x and y are:
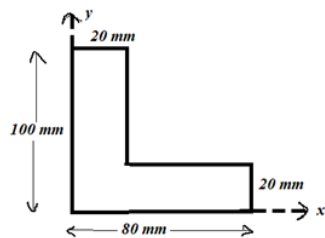


Ans  ✗ 1.  $\bar{x} = 30$ mm  and  $\bar{y} = 35$ mm

✔ 2.  $\bar{x} = 25$ mm  and  $\bar{y} = 35$ mm

✗ 3.  $\bar{x} = 35$ mm  and  $\bar{y} = 45$ mm

✗ 4.  $\bar{x} = 30$ mm  and  $\bar{y} = 30$ mm

Question Type : **MCQ**
Question ID : **387868406**
Option 1 ID : **3878681590**
Option 2 ID : **3878681589**
Option 3 ID : **3878681591**
Option 4 ID : **3878681592**
Status : **Answered**
Chosen Option : **3**

**Q.61** In a reaction turbine, the cavitation may occur at:

Ans  ✗ 1.  the draft tube outlet where the pressure is negative

✗ 2.
the runner exit or the draft tube inlet where the pressure is positive

✗ 3.  the penstock inlet where the pressure is negative

✔ 4.
the runner exit or the draft tube inlet where the pressure is negative

Question Type : **MCQ**
Question ID : **387868374**
Option 1 ID : **3878681464**
Option 2 ID : **3878681462**
Option 3 ID : **3878681463**
Option 4 ID : **3878681461**
Status : **Answered**
Chosen Option : **1**

**Q.62** The total cost of a new car shed is ₹2,00,000. Find out the depreciation cost of the car shed after 20 years using the straight line method if the scrap value is ₹25,000, assuming the life of the car shed is 50 years.

**Ans**
✗ 1. ₹1,80,000

✗ 2. ₹1,60,000

✔ 3. ₹1,30,000

✗ 4. ₹1,50,000

Question Type : **MCQ**
Question ID : **387868398**
Option 1 ID : **3878681560**
Option 2 ID : **3878681558**
Option 3 ID : **3878681559**
Option 4 ID : **3878681557**
Status : **Answered**
Chosen Option : **4**

**Q.63** The following statements are related to building construction. Select the correct option.

1. The term formwork is generally used for all temporary works for holding concrete during construction.

2. The term scaffolding is generally used for the temporary structure used to support the concrete formwork and workmen during construction.

**Ans**
✔ 1. Both 1 and 2 are correct

✗ 2. Both 1 and 2 are incorrect

✗ 3. 1 is correct and 2 is incorrect

✗ 4. 1 is incorrect and 2 is correct

Question Type : **MCQ**
Question ID : **387868352**
Option 1 ID : **3878681376**
Option 2 ID : **3878681375**
Option 3 ID : **3878681373**
Option 4 ID : **3878681374**
Status : **Answered**
Chosen Option : **1**

**Q.64** Reciprocal levelling is employed to determine the accurate difference in level of two points which:

**Ans** ✔ 1.
are quite apart and where it is not possible to set up the instrument midway between the points

✘ 2.
have a very large difference in level and two instrument settings are required to determine the

difference in level

✘ 3.
are quite close and where it is not possible to set up the instrument midway between the points

✘ 4. are at almost the same elevation.

Question Type : **MCQ**
Question ID : **387868355**
Option 1 ID : **3878681387**
Option 2 ID : **3878681386**
Option 3 ID : **3878681385**
Option 4 ID : **3878681388**
Status : **Answered**
Chosen Option : **4**

**Q.65** As per IS 456-2000, the development the length of each bar of bundled bars shall be that for the individual bar, increased by 20 per cent for _____.

**Ans** ✔ 1. three bars in contact

✘ 2. two bars in contact

✘ 3. four bars in contact

✘ 4. five bars in contact

Question Type : **MCQ**
Question ID : **387868392**
Option 1 ID : **3878681534**
Option 2 ID : **3878681533**
Option 3 ID : **3878681535**
Option 4 ID : **3878681536**
Status : **Answered**
Chosen Option : **3**

**Q.66** Match the following tools and functions in railway track maintenance.

| Tools | Functions |
|-------|-----------|
| 1. Cant board | A. To check the squareness of sleepers |
| 2. Canne-a-boule | B. To check the gauge as well as the cross level |
| 3. Gauge-cum-level | C. To check the difference in cross levels or the superelevation |
| 4. T-square | D. A modern equipment used to assess the voids under the sleepers |

**Ans**

✗ 1. 1-D, 2-C, 3-B, 4-A

✗ 2. 1-C, 2-A, 3-B, 4-D

✔ 3. 1-C, 2-D, 3-B, 4-A

✗ 4. 1-B, 2-D, 3-C, 4-A

Question Type : **MCQ**
Question ID : **387868388**
Option 1 ID : **3878681518**
Option 2 ID : **3878681517**
Option 3 ID : **3878681519**
Option 4 ID : **3878681520**
Status : **Answered**
Chosen Option : **1**

**Q.67** Persons dying of _____ inhalations exhibit characteristics bright pink colour of the flesh due to the presence of pink coloured carboxy-haemoglobin in their blood.

**Ans**

✗ 1. hydrocarbons

✗ 2. oxides of nitrogen

✗ 3. carbon dioxide

✔ 4. carbon monoxide

Question Type : **MCQ**
Question ID : **387868402**
Option 1 ID : **3878681573**
Option 2 ID : **3878681574**
Option 3 ID : **3878681575**
Option 4 ID : **3878681576**
Status : **Answered**
Chosen Option : **4**

**Q.68** According to IS 456-2000, the deflection of an RCC beam of span $L$ including the effects of temperature, creep and shrinkage occurring after the erection of partitions and the application of finishes should not normally exceed:

**Ans**

✗ 1. L/250 or 10 mm, whichever is less

✔ 2. L/350 or 20 mm, whichever is less

✗ 3. L/450 or 25 mm, whichever is less

✗ 4. L/500 or 30 mm, whichever is less

Question Type : **MCQ**
Question ID : **387868390**
Option 1 ID : **3878681525**
Option 2 ID : **3878681526**
Option 3 ID : **3878681527**
Option 4 ID : **3878681528**
Status : **Answered**
Chosen Option : **3**

**Q.69** What is the recommended value of effective length by IS 456-2000 for an RCC column of unsupported length $L$ effectively held in position and restrained against rotation at one end but not held in position nor restrained against rotation at the other end?

**Ans**

✗ 1. 1.5 L

✔ 2. 2.00 L

✗ 3. 1.2 L

✗ 4. 1.00 L

Question Type : **MCQ**
Question ID : **387868394**
Option 1 ID : **3878681543**
Option 2 ID : **3878681544**
Option 3 ID : **3878681542**
Option 4 ID : **3878681541**
Status : **Answered**
Chosen Option : **4**

**Q.70** The elastic modulus of subgrade of a flexible road pavement is determined by using the _____ test.

**Ans**

✔ 1. Plate bearing

✗ 2. California bearing ratio

✗ 3. California resistance value

✗ 4. Triaxial compression

Question Type : **MCQ**
Question ID : **387868386**
Option 1 ID : **3878681512**
Option 2 ID : **3878681509**
Option 3 ID : **3878681510**
Option 4 ID : **3878681511**
Status : **Answered**
Chosen Option : **1**

**Q.71** The moment of inertia of a triangular section having base $b$ and height $h$ shown in the given figure about an axis (VV) passing through its vertex and parallel to the base is:
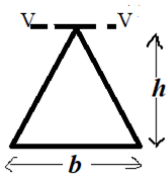


Ans

✗ 1. $\dfrac{bh^3}{8}$

✗ 2. $\dfrac{bh^3}{12}$

✗ 3. $\dfrac{bh^3}{36}$

✔ 4. $\dfrac{bh^3}{4}$

Question Type : **MCQ**

Question ID : **387868358**

Option 1 ID : **3878681400**

Option 2 ID : **3878681397**

Option 3 ID : **3878681398**

Option 4 ID : **3878681399**

Status : **Answered**

Chosen Option : **2**

**Q.72** The properties of building materials are given. Select the correct option.

1. Asbestos has low heat and electric conductivity, high resistance to alkali and poor resistance to acids.

2. Refractory materials are capable of withstanding high temperature and resist chemical action.

Ans

✗ 1. Both 1 and 2 are false

✗ 2. 1 is true and 2 is false

✗ 3. 1 is false and 2 is true

✔ 4. Both 1 and 2 are true

Question Type : **MCQ**

Question ID : **387868350**
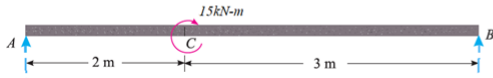
Option 1 ID : **3878681368**

Option 2 ID : **3878681365**

Option 3 ID : **3878681366**

Option 4 ID : **3878681367**

Status : **Answered**

Chosen Option : **2**

**Q.73** A simply supported beam of 5 m span is subjected to a clockwise moment of 15 $kN\text{-}m$ at a distance of 2 m from the left end as shown in the given figure. Find the bending moment at C (both left and right of C).



**Ans**

✗ 1.

$$BM_{\text{Left side of C}} = -3 \text{ kN-m and } BM_{\text{Right side of C}} = +3\text{kN-m}$$

✔ 2.

$$BM_{\text{Left side of C}} = -6 \text{ kN-m and } BM_{\text{Right side of C}} = +9\text{kN-m}$$

✗ 3.

$$BM_{\text{Left side of C}} = -7.5 \text{ kN-m and } BM_{\text{Right side of C}} = +3\text{kN-m}$$

✗ 4.

$$BM_{\text{Left side of C}} = -30 \text{ kN-m and } BM_{\text{Right side of C}} = +45\text{kN-m}$$

Question Type : **MCQ**
Question ID : **387868359**
Option 1 ID : **3878681404**
Option 2 ID : **3878681403**
Option 3 ID : **3878681402**
Option 4 ID : **3878681401**
Status : **Answered**
Chosen Option : **3**

**Q.74** According to IS 10500-2012, the maximum permissible limit of magnesium present in drinking water in the absence of an alternate source is:

**Ans**

✗ 1. 250 mg/l

✗ 2. 50 mg/l

✔ 3. 100 mg/l

✗ 4. 500 mg/l

Question Type : **MCQ**
Question ID : **387868399**
Option 1 ID : **3878681563**
Option 2 ID : **3878681561**
Option 3 ID : **3878681564**
Option 4 ID : **3878681562**
Status : **Answered**
Chosen Option : **1**

**Q.75** Which of the following is the limitation of Lami's theorem?

**Ans**   ✔ 1. Applicable for coplanar concurrent system of three forces

✘ 2.
Applicable for non-coplanar non-concurrent force system of three forces

✘ 3.
Applicable for non-coplanar concurrent system of three forces

✘ 4. Applicable for colinear force system of two forces

Question Type : **MCQ**
Question ID : **387868405**
Option 1 ID : **3878681586**
Option 2 ID : **3878681588**
Option 3 ID : **3878681587**
Option 4 ID : **3878681585**
Status : **Answered**
Chosen Option : **1**

**Q.76** Convert the following whole circle bearing into quadrantal bearing.

$170^{\circ}$ 12'

**Ans**   ✘ 1. N $9^{\circ}$ 48' E

✘ 2. N $80^{\circ}$ 12' W

✘ 3. S $80^{\circ}$ 12' E

✔ 4. S $9^{\circ}$ 48' E

Question Type : **MCQ**
Question ID : **387868354**
Option 1 ID : **3878681381**
Option 2 ID : **3878681384**
Option 3 ID : **3878681383**
Option 4 ID : **3878681382**
Status : **Answered**
Chosen Option : **3**

**Q.77** Which of the following is an ideal transition curve in surveying?

Ans
- ✗ 1. Cubic parabola
- ✔ 2. Clothoid
- ✗ 3. Lemniscate
- ✗ 4. Polynomial

**Q.78** The fixed end moments for the fixed beam shown in the given figure is:
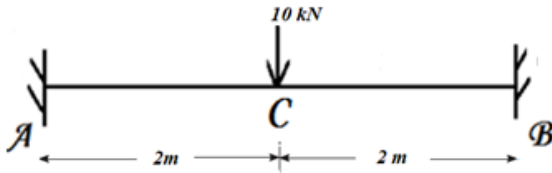


Ans
- ✗ 1. 13.33 kN-m
- ✔ 2. 5 kN-m
- ✗ 3. 10 kN-m
- ✗ 4. 20 kN-m

**Q.79** Clapeyron's theorem of three moments can be applied to:

**Ans** ✗ 1. cantilever beams

✓ 2. continuous beams

✗ 3. propped cantilever beams

✗ 4. fixed beams

Question Type : **MCQ**
Question ID : **387868378**
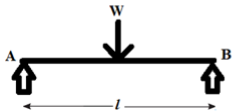Option 1 ID : **3878681479**
Option 2 ID : **3878681478**
Option 3 ID : **3878681480**
Option 4 ID : **3878681477**
Status : **Answered**
Chosen Option : **3**

**Q.80** What is the maximum slope and deflection for a simply supported beam with a point load acting at the centre as shown in the given figure? Note: Supports at A and B are simple supports and $EI$ is flexural rigidity.



**Ans**

✓ 1. slope $= \dfrac{Wl^2}{16EI}$ and deflection $= \dfrac{Wl^3}{48EI}$

✗ 2. slope $= \dfrac{Wl^2}{2EI}$ and deflection $= \dfrac{Wl^3}{3EI}$

✗ 3. slope $= \dfrac{Wl^3}{24EI}$ and deflection $= \dfrac{5Wl^4}{384EI}$

✗ 4. slope $= \dfrac{Wl^3}{6EI}$ and deflection $= \dfrac{Wl^4}{8EI}$

Question Type : **MCQ**
Question ID : **387868376**
Option 1 ID : **3878681469**
Option 2 ID : **3878681472**
Option 3 ID : **3878681470**
Option 4 ID : **3878681471**
Status : **Answered**
Chosen Option : **2**

**Q.81** The estimated times of completion of four jobs A, B, C and D are given below. Find out the job having the least expected time.

|  | Optimistic time $(t_o)$, days | Most likely time $(t_L)$, days | Most pessimistic time $(t_p)$, days |
|---|---|---|---|
| Job A | 6 | 6 | 6 |
| Job B | 5 | 10 | 15 |
| Job C | 4 | 8 | 6 |
| Job D | 4 | 5 | 6 |

**Ans** ✗ 1. Job B

✗ 2. Job A

✓ 3. Job D

✗ 4. Job C

Question Type : **MCQ**

Question ID : **387868382**

Option 1 ID : **3878681494**

Option 2 ID : **3878681493**

Option 3 ID : **3878681496**

Option 4 ID : **3878681495**

Status : **Answered**

Chosen Option : **4**

**Q.82** _____ is the highway cross-sectional element which indicates the boundary between the pavement and the shoulder.

**Ans** ✗ 1. Camber

✗ 2. Right of way

✓ 3. Kerb

✗ 4. Driveway

Question Type : **MCQ**

Question ID : **387868385**

Option 1 ID : **3878681508**

Option 2 ID : **3878681506**

Option 3 ID : **3878681505**

Option 4 ID : **3878681507**

Status : **Answered**

Chosen Option : **1**

**Q.83** Which of the following instruments contains two telescopes that is used for setting out both straight lines and offset lines at 90° in chain survey?

**Ans**
✗ 1. Tacheometer

✔ 2. Site square

✗ 3. Theodolite

✗ 4. Dumpy level

Question Type : **MCQ**
Question ID : **387868353**
Option 1 ID : **3878681377**
Option 2 ID : **3878681380**
Option 3 ID : **3878681378**
Option 4 ID : **3878681379**
Status : **Answered**
Chosen Option : **1**

**Q.84** Which of the following statements is INCORRECT with respect to PERT and CPM?

**Ans**
✗ 1.
PERT does not allow repetitive jobs like planning and scheduling of programmes, whereas CPM allows repetitive jobs.

✔ 2.
PERT is based on a deterministic model, whereas CPM is based on a probabilistic model.

✗ 3.
PERT is related to activities of uncertain time, whereas CPM is related to activities of well-known time.

✗ 4.
PERT is an event based problem, whereas CPM is an activity based problem.

Question Type : **MCQ**
Question ID : **387868383**
Option 1 ID : **3878681500**
Option 2 ID : **3878681499**
Option 3 ID : **3878681498**
Option 4 ID : **3878681497**
Status : **Answered**
Chosen Option : **1**

**Q.85** Compacting fresh concrete at a work place by 'rodding' means:

Ans ✗ 1.
the concrete is compacted by its self weight by pouring at a height of 0.5 m

✗ 2.
the concrete is compacted by dropping at a height more than 2 m in mass concrete work

✔ 3.
the concrete is placed in thin layers nearly 10 cm in thickness, and compacted by a steel rod of 16 mm diameter and 2 m length

✗ 4.
the concrete is compacted by vibrators with considerable large thickness greater than 20 cm

Question Type : **MCQ**
Question ID : **387868365**
Option 1 ID : **3878681427**
Option 2 ID : **3878681428**
Option 3 ID : **3878681425**
Option 4 ID : **3878681426**
Status : **Answered**
Chosen Option : **4**

**Q.86** What is the width and length of the rail in Indian broad gauge railways?

Ans ✗ 1. Width = 1346 mm and Length of one rail = 10 m

✗ 2. Width = 1524 mm and Length of one rail = 12 m

✔ 3. Width = 1676 mm and Length of one rail = 13 m

✗ 4. Width = 1476 mm and Length of one rail = 11.9 m

Question Type : **MCQ**
Question ID : **387868387**
Option 1 ID : **3878681513**
Option 2 ID : **3878681515**
Option 3 ID : **3878681516**
Option 4 ID : **3878681514**
Status : **Answered**
Chosen Option : **3**

**Q.87** According to IS 800-2007, the thickness of flat lacing bars shall not be less than _____ of its effective length for single lacings and _____ of the effective length for double lacings.

Ans ✗ 1. one-sixtieth; one-fortieth

✗ 2. one-twentieth; one-thirtieth

✔ 3. one-fortieth; one-sixtieth

✗ 4. one-thirtieth; one-fiftieth

Question Type : **MCQ**
Question ID : **387868389**
Option 1 ID : **3878681522**
Option 2 ID : **3878681521**
1523
1524
Status : **Answered**

**Q.88** A plate load test was conducted in a sandy soil with a plate of size 0.4 m × 0.4 m. The ultimate load per unit area was found to be 2 kN/m$^2$. Find the allowable load for a footing of 2 m × 2 m using a factor of safety of 4.

**Ans**

✔ 1. $2.5 \text{ kN/m}^2$

✘ 2. $1.5 \text{ kN/m}^2$

✘ 3. $4.5 \text{ kN/m}^2$

✘ 4. $3.5 \text{ kN/m}^2$

Question Type : **MCQ**
Question ID : **387868369**
Option 1 ID : **3878681442**
Option 2 ID : **3878681441**
Option 3 ID : **3878681444**
Option 4 ID : **3878681443**
Status : **Answered**
Chosen Option : **2**

---

**Q.89** When the sanctioned estimate exceeds by 5% either due to the rates being found insufficient or due to some other reason, a fresh estimate is prepared which is called:

**Ans**

✘ 1. detailed estimate

✔ 2. revised estimate

✘ 3. lumpsum estimate

✘ 4. supplementary estimate

Question Type : **MCQ**
Question ID : **387868395**
Option 1 ID : **3878681547**
Option 2 ID : **3878681546**
Option 3 ID : **3878681548**
Option 4 ID : **3878681545**
Status : **Answered**
Chosen Option : **4**

---

**Q.90** Which of the following is a general specification for the damp proof course for class I building?

**Ans**

✘ 1.
2.5 cm cement concrete 1 : 1½ : 3 without water proofing material and painted with two coats of bitumen

✔ 2.
2.5 cm cement concrete 1 : 1½ : 3 with one kg impermo per bag of cement and painted with two coats of bitumen

✘ 3.
2 cm thick cement mortar 1 : 2 mixed with standard water proofing material

✘ 4.
2 cm of crude oil concrete 1 : 2 : 4 with standard water proofing material

Question Type : **MCQ**
Question ID : **387868396**
Option 1 ID : **3878681552**
Option 2 ID : **3878681551**
Option 3 ID : **3878681549**
Status : **Answered**

**Q.91** When a moment is applied at one end of a member, allowing rotation of that end and fixing the far end, some moment develops at the far end which is known as:

**Ans**
✗ 1. distribution moment

✗ 2. distribution factor

✔ 3. carryover moment

✗ 4. carryover factor

Question Type : **MCQ**
Question ID : **387868375**
Option 1 ID : **3878681465**
Option 2 ID : **3878681466**
Option 3 ID : **3878681468**
Option 4 ID : **3878681467**
Status : **Answered**
Chosen Option : **4**

**Q.92** One of the merits of the _____ contract is that there is no need for detailed drawings at the time of allotting the contract and same will be prepared after the contract is awarded.

**Ans**
✗ 1. cost plus and cost free

✔ 2. item rate

✗ 3. lumpsum

✗ 4. cost plus percentage of cost

Question Type : **MCQ**
Question ID : **387868381**
Option 1 ID : **3878681491**
Option 2 ID : **3878681490**
Option 3 ID : **3878681489**
Option 4 ID : **3878681492**
Status : **Answered**
Chosen Option : **4**

**Q.93** 'The intensity of pressure at any point in a liquid at rest is the same in all directions' is the statement of which law?

**Ans**
✗ 1. Viscosity law

✗ 2. Bernoulli's law

✔ 3. Pascal's law

✗ 4. Hydrostatic law

Question Type : **MCQ**
Question ID : **387868370**
Option 1 ID : **3878681447**
Option 2 ID : **3878681448**
Option 3 ID : **3878681446**
Option 4 ID : **3878681445**
Status : **Answered**
Chosen Option : **1**

**Q.94** The equivalent length of a compression member (column) of unsupported length *L*, hinged at its both ends is equal to:

**Ans** ✗ 1. 0.5L

✗ 2. 2L

✗ 3. 0.7L

✔ 4. L

Question Type : **MCQ**
Question ID : **387868357**
Option 1 ID : **3878681395**
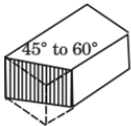Option 2 ID : **3878681394**
Option 3 ID : **3878681396**
Option 4 ID : **3878681393**
Status : **Answered**
Chosen Option : **2**

**Q.95** In a brick masonry, the portion of a brick whose one end is cut splayed at an angle varying from 45° to 60° for full width as shown in the given figure is called:



**Ans** ✔ 1. mitred closer

✗ 2. bevelled closer

✗ 3. king closer

✗ 4. bull nose

Question Type : **MCQ**
Question ID : **387868351**
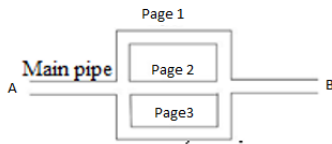Option 1 ID : **3878681372**
Option 2 ID : **3878681370**
Option 3 ID : **3878681369**
Option 4 ID : **3878681371**
Status : **Answered**
Chosen Option : **4**

**Q.96** Which of the following statements is correct when pipes are connected in parallel as shown in the given figure?

Page 1

Main pipe | Page 2
A _____ B
Page3

**Ans** ✗ 1.
The diameter of the main pipe is equal to the sum of the diameters of each of the parallel pipes.

✗ 2.
The velocity of flow in the main pipe is equal to sum of the velocities in each of the parallel pipes.

✔ 3.
The rate of discharge in the main pipe is equal to the sum of the discharges in each of the parallel pipes.

✗ 4.
The total head loss in the main pipe is the same as in each of the parallel pipes.

Question Type : **MCQ**
Question ID : **387868372**
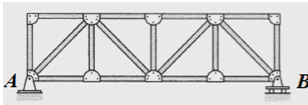Option 1 ID : **3878681456**
Option 2 ID : **3878681453**
Option 3 ID : **3878681455**
Option 4 ID : **3878681454**
Status : **Answered**
Chosen Option : **3**

**Q.97** The simple truss is shown in the given figure whose *A* support is hinge and *B* support is roller. Identify the type of truss.

*A* _____ *B*

**Ans** ✔ 1. Statically determinate-stable

✗ 2. Statically determinate-unstable

✗ 3. Statically indeterminate-stable

✗ 4. Statically indeterminate-unstable

Question Type : **MCQ**
Question ID : **387868379**
Option 1 ID : **3878681482**
Option 2 ID : **3878681481**
Option 3 ID : **3878681484**
Option 4 ID : **3878681483**
Status : **Answered**
Chosen Option : **2**

**Q.98** An object of weight 100 N is kept in position on a plane inclined 55° to the horizontal by a horizontally applied force (F).

If the angle of friction of the surface of the inclined plane is 10°, determine the minimum magnitude of the force (F).

**Ans**

✗ 1. 85 N

✓ 2. 100 N

✗ 3. 70 N

✗ 4. 50 N

Question Type : **MCQ**

Question ID : **387868407**

Option 1 ID : **3878681595**

Option 2 ID : **3878681596**

Option 3 ID : **3878681594**

Option 4 ID : **3878681593**

Status : **Answered**

Chosen Option : **1**

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**Q.99** The following off-sets were taken at 20 m intervals from a survey line to an irregular boundary line: 5 m, 4 m, 6 m, 5 m, 7 m. Calculate the area using Simpson's rule.

**Ans**

✗ 1. $530 \text{ m}^2$

✗ 2. $450 \text{ m}^2$

✓ 3. $400 \text{ m}^2$

✗ 4. $285 \text{ m}^2$

Question Type : **MCQ**

Question ID : **387868397**

Option 1 ID : **3878681556**

Option 2 ID : **3878681555**

Option 3 ID : **3878681554**

Option 4 ID : **3878681553**

Status : **Answered**

Chosen Option : **1**

---

**Q.100** Which of the following natural processes of air pollution control that the gaseous as well as particulate pollutants from the air get collected in the rain or mist and may settle out with that moisture?

**Ans**

✗ 1. Rainout

✓ 2. Absorption

✗ 3. Adsorption

✗ 4. Gravitational settling

Question Type : **MCQ**

Question ID : **387868404**

Option 1 ID : **3878681584**

Option 2 ID : **3878681582**

Option 3 ID : **3878681583**

Option 4 ID : **3878681581**

Status : **Answered**

| Participant ID | 123 |
|---|---|
| Participant Name | xyz |
| Test Center Name | iON Digital Zone Chikalthana |
| Test Date | 09/08/2022 |
| Test Time | 12:30 PM - 2:00 PM |
| Subject | Cluster 1 |

Section : **English**

**Q.1** **Select the most appropriate option to fill in the blank.**

**I am _____surprised at the result.**

**Ans** ✗ 1. too much

✗ 2. very much

✗ 3. enough

✔ 4. quite

Question Type : **MCQ**
Question ID : **387868409**
Option 1 ID : **3878681602**
Option 2 ID : **3878681601**
Option 3 ID : **3878681604**
Option 4 ID : **3878681603**
Status : **Answered**
Chosen Option : **4**

**Q.2** **Select the most appropriate option to fill in the blank.**

**He copied my paper word _____word so the teacher cancelled it.**

**Ans** ✔ 1. for

✗ 2. on

✗ 3. to

✗ 4. in

Question Type : **MCQ**
Question ID : **387868410**
Option 1 ID : **3878681605**
Option 2 ID : **3878681607**
Option 3 ID : **3878681606**
Option 4 ID : **3878681608**
Status : **Answered**

**Q.3** Select the most appropriate option to fill in the blank.

Our house in Shimla _____to be a summer resort.

**Ans** ✗ 1. intended

✓ 2. was intended

✗ 3. was being

✗ 4. had intended

Question Type : **MCQ**
Question ID : **387868411**
Option 1 ID : **3878681609**
Option 2 ID : **3878681612**
Option 3 ID : **3878681611**
Option 4 ID : **3878681610**
Status : **Answered**
Chosen Option : **2**

**Q.4** Select the most appropriate meaning of the given idiom.

Lose ground

**Ans** ✗ 1. Lack faith

✗ 2. Reduce speed

✓ 3. Fall behind

✗ 4. Miss a chance

Question Type : **MCQ**
Question ID : **387868414**
Option 1 ID : **3878681622**
Option 2 ID : **3878681624**
Option 3 ID : **3878681623**
Option 4 ID : **3878681621**
Status : **Answered**
Chosen Option : **4**

**Q.5** Select the most appropriate synonym of the given word.

Denounce

**Ans** ✗ 1. Ignore

✓ 2. Revile

✗ 3. Flatter

✗ 4. Applaud

Question Type : **MCQ**
Question ID : **387868413**
Option 1 ID : **3878681619**
Option 2 ID : **3878681618**
Option 3 ID : **3878681620**
Option 4 ID : **3878681617**
Status : **Answered**
Chosen Option : **1**

**Q.6** Select the most appropriate ANTONYM of the given word.

**Lavish**

**Ans** ✗ 1. Generous

✔ 2. Lacking

✗ 3. Wasteful

✗ 4. Liberal

Question Type : **MCQ**
Question ID : **387868412**
Option 1 ID : **3878681616**
Option 2 ID : **3878681615**
Option 3 ID : **3878681613**
Option 4 ID : **3878681614**
Status : **Answered**
Chosen Option : **4**

**Q.7** Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A.The more TV they watch, the more they tend to eat things that are advertised on TV.
B.Paediatricians recommend that children should not watch TV for more than one to two hours per day
C.Thus, US nutrition experts have come to the conclusion that watching too much TV is one of the main reasons why so many children in the US are overweight.
D.Unfortunately, this usually means high-fat snacks, potato crisps or chocolate.

**Ans** ✔ 1. BADC

✗ 2. ACBD

✗ 3. BDCA

✗ 4. CBAD

Question Type : **MCQ**
Question ID : **387868415**
Option 1 ID : **3878681626**
Option 2 ID : **3878681627**
Option 3 ID : **3878681625**
Option 4 ID : **3878681628**
Status : **Answered**
Chosen Option : **1**

**Comprehension:**

Read the given passage and answer the questions that follow.

Last summer, I boarded a flight from the IGI airport. The airplane waited at the runway in a queue to take off for one hour, with the engines running. A lot of aviation fuel was wasted. Carbon dioxide, nitrogen oxide and water vapour were released into the atmosphere.
With the entry of many players in the aviation industry, pollution has reached the skies as well. With the number of airline flights worldwide growing and expected to skyrocket over the coming decades, the problem of delayed arrival and departure will intensify.
The inefficiencies in the air and on the ground caused by the system also mean wastage of fuel and excessive emission of $CO_2$. No doubt, the air travel industry is coming under scrutiny for its role in climate change. Though the aviation industry contributes only 2% of the total C-emissions, with the rapid economic growth and ever increasing affordability of air travel, this industry will only expand at a much faster pace than ever before, thus increasing the rate of carbon emissions.

**SubQuestion No : 8**

**Q.8  Which of the following statements is NOT true?**

**Ans**    ✔ 1. Aviation industry contributes only 20% of the total carbon emission.

✘ 2. Every minute saved from a flight means fuel saved and carbon emission averted.

✘ 3. Delayed departures and arrivals lead to wastage of fuel.

✘ 4. Engines are kept running when planes await take off on the runway.

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868418** |
| Option 1 ID : | **3878681636** |
| Option 2 ID : | **3878681635** |
| Option 3 ID : | **3878681634** |
| Option 4 ID : | **3878681633** |
| Status : | **Answered** |
| Chosen Option : | **1** |

**Comprehension:**

Read the given passage and answer the questions that follow.

Last summer, I boarded a flight from the IGI airport. The airplane waited at the runway in a queue to take off for one hour, with the engines running. A lot of aviation fuel was wasted. Carbon dioxide, nitrogen oxide and water vapour were released into the atmosphere.
With the entry of many players in the aviation industry, pollution has reached the skies as well. With the number of airline flights worldwide growing and expected to skyrocket over the coming decades, the problem of delayed arrival and departure will intensify.
The inefficiencies in the air and on the ground caused by the system also mean wastage of fuel and excessive emission of $CO_2$. No doubt, the air travel industry is coming under scrutiny for its role in climate change. Though the aviation industry contributes only 2% of the total C-emissions, with the rapid economic growth and ever increasing affordability of air travel, this industry will only expand at a much faster pace than ever before, thus increasing the rate of carbon emissions.

**SubQuestion No : 9**

**Q.9** **What is the result of several players emerging in the aviation industry?**

Ans    ✗ 1. Increasing affordability of air travel

     ✗ 2. More waiting time at the airport

     ✔ 3. Pollution reaching the skies

     ✗ 4. Greater penalty on travel industry for climate change

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868417** |
| Option 1 ID : | **3878681630** |
| Option 2 ID : | **3878681629** |
| Option 3 ID : | **3878681631** |
| Option 4 ID : | **3878681632** |
| Status : | **Answered** |
| Chosen Option : | **3** |

**Comprehension:**

Read the given passage and answer the questions that follow.

Last summer, I boarded a flight from the IGI airport. The airplane waited at the runway in a queue to take off for one hour, with the engines running. A lot of aviation fuel was wasted. Carbon dioxide, nitrogen oxide and water vapour were released into the atmosphere.
With the entry of many players in the aviation industry, pollution has reached the skies as well. With the number of airline flights worldwide growing and expected to skyrocket over the coming decades, the problem of delayed arrival and departure will intensify.
The inefficiencies in the air and on the ground caused by the system also mean wastage of fuel and excessive emission of $CO_2$. No doubt, the air travel industry is coming under scrutiny for its role in climate change. Though the aviation industry contributes only 2% of the total C-emissions, with the rapid economic growth and ever increasing affordability of air travel, this industry will only expand at a much faster pace than ever before, thus increasing the rate of carbon emissions.

**SubQuestion No : 10**

**Q.10  What do the inefficiencies in the air and on the ground result in?**

Ans  ✗ 1. Increase in the number of flights

✓ 2. Wastage of fuel and excessive $CO_2$ emissions

✗ 3. Rapid expansion of airlines worldwide

✗ 4. Rapid economic growth and accessibility of air travel

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868419** |
| Option 1 ID : | **3878681638** |
| Option 2 ID : | **3878681637** |
| Option 3 ID : | **3878681639** |
| Option 4 ID : | **3878681640** |
| Status : | **Answered** |
| Chosen Option : | **2** |

Section : **Marathi**

**Q.11  बागेमध्ये सुंदर ,लाल फुले आणि गोड गोड फळे आहेत. या वाक्यातील विशेषणे ओळखा.**

Ans  ✓ 1. सुंदर,लाल,गोड

✗ 2. सुंदर ,लाल, बागेत

✗ 3. बाग, फुले ,आहेत

✗ 4. फळे,फुले,सुंदर

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868420** |
| Option 1 ID : | **3878681642** |
| Option 2 ID : | **3878681644** |
| Option 3 ID : | **3878681641** |
| Option 4 ID : | **3878681643** |
| Status : | **Answered** |
| Chosen Option : | **1** |

**Q.12** तो मुलगा खेळत आहे. या वाक्यातील काळ ओळखा.

Ans  ✘ 1. साधा वर्तमान काळ

✘ 2. अपूर्ण भविष्य काळ

✔ 3. अपूर्ण वर्तमान काळ

✘ 4. अपूर्ण भूतकाळ

Question Type : **MCQ**
Question ID : **387868422**
Option 1 ID : **3878681651**
Option 2 ID : **3878681652**
Option 3 ID : **3878681649**
Option 4 ID : **3878681650**
Status : **Answered**
Chosen Option : **3**

**Q.13** वर्दळीवर येणे या वाक्प्रचाराचा अर्थ शोधा.

Ans  ✘ 1. वेड पांघरणे

✘ 2. विल्हेवाट लावणे

✔ 3. भांडण्यास प्रवृत्त होणे

✘ 4. गर्दी जमवणे

Question Type : **MCQ**
Question ID : **387868425**
Option 1 ID : **3878681661**
Option 2 ID : **3878681662**
Option 3 ID : **3878681664**
Option 4 ID : **3878681663**
Status : **Answered**
Chosen Option : **3**

**Q.14** ' ढग ' या शब्दाचा समानार्थी शब्द लिहा.

Ans  ✘ 1. अंबर

✘ 2. अंबुज

✘ 3. अंबा

✔ 4. अंबुद

Question Type : **MCQ**
Question ID : **387868424**
Option 1 ID : **3878681659**
Option 2 ID : **3878681657**
Option 3 ID : **3878681658**
Option 4 ID : **3878681660**
Status : **Answered**
Chosen Option : **1**

**Q.15** पुढीलपैकी अचूक वाक्यरचना कोणती आहे ?

Ans ✅ 1. कृष्णाच्या बासरीच्या नादाने गोपिकांचे आणि गाईगुरांचे भान हरपून जात असे .

❌ 2. गोपिकांचे आणि गाईगुरांचे नादाने कृष्णाच्या बासरीच्या भान हरपून जात असे.

❌ 3. गोपिकांचे बासरीच्या नादाने कृष्णाच्या आणि गाईगुरांचे भान हरपून जात असे.

❌ 4. गोपिकांचे भान आणि गाईगुरांचे बासरीच्या नादाने कृष्णाच्या हरपून जात असे.

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868426** |
| Option 1 ID : | **3878681666** |
| Option 2 ID : | **3878681667** |
| Option 3 ID : | **3878681668** |
| Option 4 ID : | **3878681665** |
| Status : | **Answered** |
| Chosen Option : | **1** |

**Q.16** ' विधायक ' या शब्दाचा विरुद्धार्थी शब्द सांगा.

Ans ❌ 1. विसंगत

❌ 2. विजातीय

✅ 3. विध्वंसक

❌ 4. विसंवादी

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868423** |
| Option 1 ID : | **3878681655** |
| Option 2 ID : | **3878681656** |
| Option 3 ID : | **3878681654** |
| Option 4 ID : | **3878681653** |
| Status : | **Answered** |
| Chosen Option : | **4** |

**Q.17** त्याला खूप समजावून सांगितले, पण तो ऐकत नाही. या वाक्यातील अव्यय शोधा.

Ans ❌ 1. ऐकत

✅ 2. पण

❌ 3. नाही

❌ 4. खूप

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868421** |
| Option 1 ID : | **3878681648** |
| Option 2 ID : | **3878681647** |
| Option 3 ID : | **3878681646** |
| Option 4 ID : | **3878681645** |
| Status : | **Answered** |
| Chosen Option : | **2** |

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या.

ज्या निबिड आणि गगनचुंबी जंगलाबद्दल कारवार प्रसिद्ध आहे त्या जंगलाचा आरंभ हल्याळ पासून होतो. आम्ही हल्याळ सोडले आणि आमच्या प्रवासातील रोमहर्षक खंडाला प्रारंभ झाला.येथपासून सरळ कारवारपर्यंत नव्वद मैल एकसारखे लागून राहिलेले प्रचंड जंगल आलटून पालटून सागाचे आणि बांबूचे आहे. कोणते जंगल कोठे संपते आणि कोठून सुरू होते याचा अदमास लागत नाही. त्याखेरीज नाना जातींचे अनेक उत्तुंग वृक्ष या जंगलात गर्दी करून राहिले आहेत. बांबूचे जंगल सुरू झाले की मैल चे मैल बांबूच्या बेटांखेरीज काही आढळत नाही. एवढे बांबू लावले कोणी आणि त्यांची अवाढव्य वाढ झाली तरी कधी या विचाराने मस्तक गरगरू लागते.

या जंगलाचे वैशिष्ट्य म्हणजे बारीकसारीक झाडाझुडपांना उगवायला येथे वाव नसल्याने हा प्रचंड वृक्षसमूह असूनही त्यांची विशेष गुंतागुंत दिसत नाही. वृक्षांची मस्तके दीडशे फुटांवर एकमेकांत गुंतलेली असली तरी तळचा भाग विरळ आणि मोकळा आहे. सागाचे जंगल सुरू झाले आणि हजारो सरळसोट साग शिपायांच्या पलटणी प्रमाणे जिकडेतिकडे दिसू लागले आणि डोळे भांबावून गेले. असे विलक्षण दृश्य इतरत्र क्वचितच पहायला मिळेल असे मला वाटते.

**SubQuestion No : 18**

**Q.18** हल्याळचे वैशिष्ट्य काय आहे?

**Ans**   ✗ 1. बारीकसारीक झुडुपे तेथे उगवत नाहीत.

　　　 ✗ 2. वृक्षांच्या मानाने त्यांचा तळचा भाग विरळ आहे.

　　　 ✔ 3. कारवारच्या जंगलाची सुरुवात येथून होते.

　　　 ✗ 4. तेथे वड आणि पिंपळाची जंगले आहेत.

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868429** |
| Option 1 ID : | **3878681673** |
| Option 2 ID : | **3878681675** |
| Option 3 ID : | **3878681674** |
| Option 4 ID : | **3878681676** |
| Status : | **Answered** |
| Chosen Option : | **1** |

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्रांची उत्तरे द्या.

ज्या निबिड आणि गगनचुंबी जंगलाबद्दल कारवार प्रसिद्ध आहे त्या जंगलाचा आरंभ हल्याळ पासून होतो. आम्ही हल्याळ सोडले आणि आमच्या प्रवासातील रोमहर्षक खंडाला प्रारंभ झाला.येथपासून सरळ कारवारपर्यंत नव्वद मैल एकसारखे लागून राहिलेले प्रचंड जंगल आलटून पालटून सागाचे आणि बांबूचे आहे. कोणते जंगल कोठे संपते आणि कोठून सुरू होते याचा अदमास लागत नाही. त्याखेरीज नाना जातींचे अनेक उत्तुंग वृक्ष या जंगलात गर्दी करून राहिले आहेत. बांबूचे जंगल सुरू झाले की मैल चे मैल बांबूच्या बेटांखेरीज काही आढळत नाही. एवढे बांबू लावले कोणी आणि त्यांची अवाढव्य वाढ झाली तरी कधी या विचाराने मस्तक गरगरू लागते.

या जंगलाचे वैशिष्ट्य म्हणजे बारीकसारीक झाडाझुडपांना उगवायला येथे वाव नसल्याने हा प्रचंड वृक्षसमूह असूनही त्यांची विशेष गुंतागुंत दिसत नाही. वृक्षांची मस्तके दीडशे फुटांवर एकमेकांत गुंतलेली असली तरी तळचा भाग विरळ आणि मोकळा आहे. सागाचे जंगल सुरू झाले आणि हजारो सरळसोट साग शिपायांच्या पलटणी प्रमाणे जिकडेतिकडे दिसू लागले आणि डोळे भांबावून गेले. असे विलक्षण दृश्य इतरत्र क्वचितच पहायला मिळेल असे मला वाटते.

**SubQuestion No : 19**

**Q.19 अदमास लागणे याचा अर्थ सांगा.**

Ans  ✗ 1. भांबावून जाणे

✔ 2. अंदाज येणे

✗ 3. गर्दी करणे

✗ 4. प्रारंभ होणे

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868430** |
| Option 1 ID : | **3878681680** |
| Option 2 ID : | **3878681677** |
| Option 3 ID : | **3878681679** |
| Option 4 ID : | **3878681678** |
| Status : | **Answered** |
| Chosen Option : | **1** |

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या.

ज्या निबिड आणि गगनचुंबी जंगलाबद्दल कारवार प्रसिद्ध आहे त्या जंगलाचा आरंभ हल्याळ पासून होतो. आम्ही हल्याळ सोडले आणि आमच्या प्रवासातील रोमहर्षक खंडाला प्रारंभ झाला.येथपासून सरळ कारवारपर्यंत नव्वद मैल एकसारखे लागून राहिलेले प्रचंड जंगल आलटून पालटून सागाचे आणि बांबूचे आहे. कोणते जंगल कोठे संपते आणि कोठून सुरू होते याचा अदमास लागत नाही. त्याखेरीज नाना जातींचे अनेक उत्तुंग वृक्ष या जंगलात गर्दी करून राहिले आहेत. बांबूचे जंगल सुरू झाले की मैल चे मैल बांबूच्या बेटांखेरीज काही आढळत नाही. एवढे बांबू लावले कोणी आणि त्यांची अवाढव्य वाढ झाली तरी कधी या विचाराने मस्तक गरगरू लागते.

या जंगलाचे वैशिष्ट्य म्हणजे बारीकसारीक झाडाझुडपांना उगवायला येथे वाव नसल्याने हा प्रचंड वृक्षसमूह असूनही त्यांची विशेष गुंतागुंत दिसत नाही. वृक्षांची मस्तके दीडशे फुटांवर एकमेकांत गुंतलेली असली तरी तळचा भाग विरळ आणि मोकळा आहे. सागाचे जंगल सुरू झाले आणि हजारो सरळसोट साग शिपायांच्या पलटणी प्रमाणे जिकडेतिकडे दिसू लागले आणि डोळे भांबावून गेले. असे विलक्षण दृश्य इतरत्र क्वचितच पहायला मिळेल असे मला वाटते.

**SubQuestion No : 20**

Q.20 ' उंच ' या अर्थाचा उताऱ्यात कोणता शब्द वापरला आहे?

Ans ✅ 1. उत्तुंग

❌ 2. अवाढव्य

❌ 3. विलक्षण

❌ 4. रोमहर्षक

Question Type : **MCQ**
Question ID : **387868428**
Option 1 ID : **3878681670**
Option 2 ID : **3878681669**
Option 3 ID : **3878681672**
Option 4 ID : **3878681671**
Status : **Answered**
Chosen Option : **1**

Section : **General Knowledge**

Q.21 _____ announced that it became the first RBI licensed PPI to launch cash withdrawal using a RuPay-powered card from any ATMs across India.

Ans ❌ 1. PhonePe

✅ 2. Omnicard

❌ 3. Razorpay

❌ 4. Cashfree

Question Type : **MCQ**
Question ID : **387868435**
Option 1 ID : **3878681700**
Option 2 ID : **3878681698**
Option 3 ID : **3878681697**
Option 4 ID : **3878681699**
Status : **Answered**
Chosen Option : **3**

**Q.22** Which of the following rivers does NOT pass through the state of Maharashtra?

Ans ✗ 1. Purna River

✗ 2. Manjira River

✓ 3. Falgu River

✗ 4. Wardha River

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868439** |
| Option 1 ID : | **3878681715** |
| Option 2 ID : | **3878681713** |
| Option 3 ID : | **3878681714** |
| Option 4 ID : | **3878681716** |
| Status : | **Answered** |
| Chosen Option : | **3** |

**Q.23** Who among the following Formula 1 drivers won the Canadian Grand Prix 2022?

Ans ✓ 1. Max Verstappen

✗ 2. Lewis Hamilton

✗ 3. George Russell

✗ 4. Carlos Sainz

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868431** |
| Option 1 ID : | **3878681682** |
| Option 2 ID : | **3878681683** |
| Option 3 ID : | **3878681684** |
| Option 4 ID : | **3878681681** |
| Status : | **Answered** |
| Chosen Option : | **2** |

**Q.24** Which of the following national parks is situated in Maharashtra?

Ans ✗ 1. Gir National Park

✗ 2. Sariska Tiger Reserve

✓ 3. Chandoli National Park

✗ 4. Jim Corbett National Park

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868438** |
| Option 1 ID : | **3878681709** |
| Option 2 ID : | **3878681712** |
| Option 3 ID : | **3878681711** |
| Option 4 ID : | **3878681710** |
| Status : | **Answered** |
| Chosen Option : | **3** |

**Q.25** महाराष्ट्र विधानसभेच्या जागांची एकूण संख्या _____ आहे.

Ans  ✔ 1. 288

✘ 2. 255

✘ 3. 277

✘ 4. 266

Question Type : **MCQ**

Question ID : **387868436**

Option 1 ID : **3878681703**

Option 2 ID : **3878681704**

Option 3 ID : **3878681702**

Option 4 ID : **3878681701**

Status : **Answered**

Chosen Option : **1**

**Q.26** भारतीय वनस्थिती अहवाल 2021 नुसार, राज्यांचा त्यांच्या एकूण भौगोलिक प्रदेशापैकी वनाने व्यापलेल्या जागेच्या टक्केवारीनुसार योग्य तो उतरता क्रम निवडा.

Ans  ✘ 1. मणिपूर > मिझोरम > अरुणाचल प्रदेश

✘ 2. मेघालय > मिझोरम > अरुणाचल प्रदेश

✘ 3. मिझोरम > मेघालय > अरुणाचल प्रदेश

✔ 4. मिझोरम > अरुणाचल प्रदेश > मेघालय

Question Type : **MCQ**

Question ID : **387868433**

Option 1 ID : **3878681692**

Option 2 ID : **3878681691**

Option 3 ID : **3878681690**

Option 4 ID : **3878681689**

Status : **Answered**

Chosen Option : **2**

**Q.27** _____ साली मराठी महाराष्ट्राची अधिकृत भाषा झाली.

Ans  ✘ 1. 1960

✘ 2. 1955

✔ 3. 1966

✘ 4. 1972

Question Type : **MCQ**

Question ID : **387868440**

Option 1 ID : **3878681719**

Option 2 ID : **3878681717**

Option 3 ID : **3878681720**

Option 4 ID : **3878681718**

Status : **Answered**

Chosen Option : **1**

**Q.28** खालीलपैकी कोणत्या वर्षी महाराष्ट्राच्या राज्य निवडणूक आयोगाची स्थापना झाली?

Ans ✗ 1. 1992

✓ 2. 1994

✗ 3. 1996

✗ 4. 1990

Question Type : **MCQ**

Question ID : **387868437**

Option 1 ID : **3878681707**

Option 2 ID : **3878681705**

Option 3 ID : **3878681706**

Option 4 ID : **3878681708**

Status : **Answered**

Chosen Option : **2**

**Q.29** फेब्रुवारी 2022 मध्ये खालीलपैकी कोणत्या संस्थेने नॉईज, ब्लेझेस अँड मिसमॅचेस नावाचा ॲन्युअल फ्रंटियर्स रिपोर्ट प्रकाशित केला होता?

Ans ✗ 1. इंटरनॅशनल इन्स्टिट्यूट फॉर एन्व्हायरमेंट अँड डेव्हलपमेंट

✗ 2. द रॉयल फाऊंडेशन

✗ 3. संयुक्त राष्ट्र विकास कार्यक्रम (United Nations Development Programme)

✓ 4. संयुक्त राष्ट्र पर्यावरण कार्यक्रम (United Nations Environment Programme)

Question Type : **MCQ**

Question ID : **387868432**

Option 1 ID : **3878681685**

Option 2 ID : **3878681688**

Option 3 ID : **3878681686**

Option 4 ID : **3878681687**

Status : **Answered**

Chosen Option : **3**

**Q.30** How much amount was announced by HSBC India in lending support for high-growth, technology-led start-ups in India?

Ans ✗ 1. $275 million

✗ 2. $125 million

✗ 3. $150 million

✓ 4. $250 million

Question Type : **MCQ**

Question ID : **387868434**

Option 1 ID : **3878681693**

Option 2 ID : **3878681695**

Option 3 ID : **3878681694**

Option 4 ID : **3878681696**

Status : **Answered**

Chosen Option : **3**

Section : **Logical Ability**

**Q.31** Consider the Venn Diagram below and answer the question that follows.
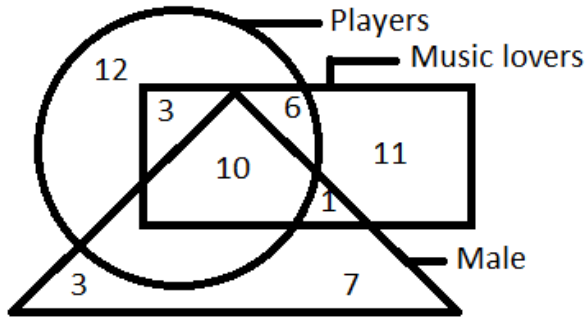


How many music lovers are players but NOT male?

**Ans**
✗ 1. 3
✗ 2. 10
✗ 3. 6
✓ 4. 9

**Q.32** जर दिलेल्या अक्षर-संख्या-चिन्ह मालिकेचा पहिला अर्धा भाग उलट क्रमाने लिहिला असेल, तर खालीलपैकी कोणते अक्षर/संख्या/चिन्ह उजव्या टोकापासून नवव्या क्रमांकाच्या डावीकडे सहाव्या क्रमांकावर काय असेल?

(डावे) h 4 t 5 6 h y ^ n 5 $ g t % 4 y % h 3 6 r t e y (उजवे)

**Ans**
✗ 1. 4
✗ 2. %
✓ 3. t
✗ 4. 5

**Q.33** गोलाकार टेबलाभोवती सहा व्यक्ती A, B, C, D, E आणि F बसलेल्या आहेत. ते सर्व टेबलच्या मध्यभागी तोंड करून बसले आहेत. A हा B आणि E च्या मध्ये बसलेल्या C च्या समोर बसला आहे. F हा B किंवा C यांच्या सोबत बसलेला नाही. B हा A च्या डावीकडे दुसऱ्या स्थानावर बसलेला आहे. A च्या लगोलग उजवीकडे कोण बसले आहे?

Ans  ✗ 1. B

✗ 2. D

✗ 3. E

✓ 4. F

Question Type : **MCQ**

Question ID : **387868441**

Option 1 ID : **3878681724**

Option 2 ID : **3878681722**

Option 3 ID : **3878681721**

Option 4 ID : **3878681723**

Status : **Answered**

Chosen Option : **4**

**Q.34** अक्षरांचे असे संयोजन निवडा जे दिलेल्या मालिकेच्या रिकाम्या जागांमध्ये क्रमाने भरल्यास एक पुनरावृत्ती आकृतीबंध निर्माण होईल.

_ _ QRS_ TPQ_ _ _TTP_ _RSTT_ _QRS_T

Ans  ✗ 1. PQSQTQRQPQT

✗ 2. PQRSQQPQTTQ

✓ 3. PQTQRSQQPQT

✗ 4. PRSQQPQTQTQ

Question Type : **MCQ**

Question ID : **387868445**

Option 1 ID : **3878681738**

Option 2 ID : **3878681739**

Option 3 ID : **3878681740**

Option 4 ID : **3878681737**

Status : **Answered**

Chosen Option : **3**

**Q.35** After an examination, P ranked above O and T ranked above R. S ranked less than only one person. Q ranked better than both R and O. Only one person ranked below O. If T and Q got equal rank, which of the following conclusion is NOT true?

Ans  ✗ 1. T < P

✗ 2. Q < P

✗ 3. O < T

✓ 4. S < Q

Question Type : **MCQ**

Question ID : **387868444**

Option 1 ID : **3878681736**

Option 2 ID : **3878681735**

Option 3 ID : **3878681733**

Option 4 ID : **3878681734**

Status : **Answered**

**Q.36** In a certain code language, 'MEDICINE' is written as 'DEFFJJNO' and 'INJECTION' is written as 'DFJJKOOPU'. How will 'DOCTOR' be written in that language?

Ans    ✗ 1. DERPSU

       ✗ 2. DEPPTU

       ✗ 3. DEPQSU

       ✓ 4. DEPPSU

Question Type : **MCQ**

Question ID : **387868448**

Option 1 ID : **3878681751**

Option 2 ID : **3878681752**

Option 3 ID : **3878681750**

Option 4 ID : **3878681749**

Status : **Answered**

Chosen Option : **2**

**Q.37** If all the vowels in the words given below are replaced with the next vowel in the English alphabet and all the consonants are replaced by the previous consonants in the English alphabet and then all the words are written as per the dictionary arrangement, which of the following words will come in the middle?
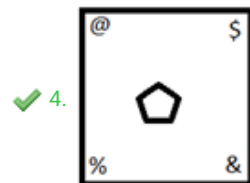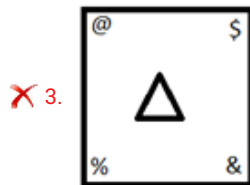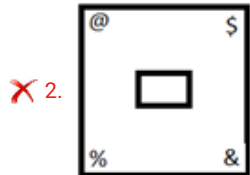
COW, ANT, BUS, CAT, MAT

Ans    ✗ 1. COW

       ✓ 2. ANT

       ✗ 3. CAT

       ✗ 4. MAT

Question Type : **MCQ**

Question ID : **387868447**

Option 1 ID : **3878681745**

Option 2 ID : **3878681746**

Option 3 ID : **3878681747**

Option 4 ID : **3878681748**

Status : **Answered**

Chosen Option : **1**

**Q.38** Select the figure that will come next in the following figure series.



**Ans**

✗ 1.



✗ 2.



✗ 3.



✔ 4.
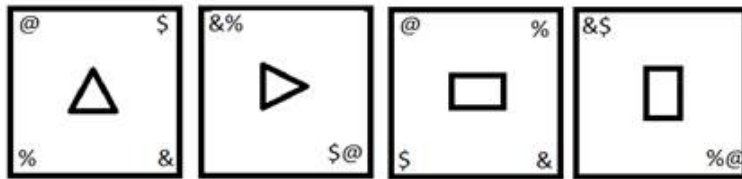


Question Type : **MCQ**

Question ID : **387868450**

Option 1 ID : **3878681760**

Option 2 ID : **3878681757**

Option 3 ID : **3878681759**

Option 4 ID : **3878681758**

Status : **Answered**

Chosen Option : **4**

**Q.39** एका स्त्रीची ओळख करून देताना श्रीमती रत्ना म्हणाल्या, "ती माझ्या आईच्या ब्रदर इन लॉची मोठी मुलगी आहे". तर श्रीमती रत्ना यांचे त्या स्त्रीशी काय नाते आहे?

Ans
✅ 1. कझीन
❌ 2. नीस
❌ 3. मुलगी
❌ 4. आई

Question Type : **MCQ**
Question ID : **387868449**
Option 1 ID : **3878681753**
Option 2 ID : **3878681754**
Option 3 ID : **3878681755**
Option 4 ID : **3878681756**
Status : **Answered**
Chosen Option : **2**

**Q.40** काही विद्यार्थी असा खेळ खेळत आहेत ज्यात ते सरळ रेषेत उत्तरेकडे तोंड करून बसले आहेत. हेमंत आणि शीतल यांच्यामध्ये दोन व्यक्ती बसल्या आहेत. बिनोद शीतलच्या डावीकडे पाचव्या स्थानावर बसला आहे. दिनेश डाव्या टोकाला आणि शीतल उजव्या टोकापासून तिसऱ्या स्थानावर बसलेली आहे. फिरोज अमनच्या उजवीकडे दुसऱ्या स्थानावर बसला आहे. अमन आणि दिनेश यांच्यामध्ये दोन व्यक्ती बसल्या आहेत. फिरोज हा अमन आणि विकासच्या अगदी मध्यभागी बसला आहे. तर रांगेत किती लोक बसले आहेत?

Ans
❌ 1. 13
❌ 2. 14
✅ 3. 15
❌ 4. 17

Question Type : **MCQ**
Question ID : **387868442**
Option 1 ID : **3878681725**
Option 2 ID : **3878681726**
Option 3 ID : **3878681727**
Option 4 ID : **3878681728**
Status : **Answered**
Chosen Option : **1**

Section : **Civil Engineering**

**Q.41** The horizontal course of masonry projecting from the face of the wall for shredding rainwater off the face is called:

Ans
❌ 1. plinth course
❌ 2. sill course
❌ 3. wall course
✅ 4. string course

Question Type : **MCQ**
Question ID : **387868454**
Option 1 ID : **3878681773**
Option 2 ID : **3878681775**
Option 3 ID : **3878681776**
Option 4 ID : **3878681774**
Chosen Option : **2**

**Q.42** Select the INCORRECTLY matched project planning and controlling by PERT and CPM.

**Ans** ✗ 1.
PERT is related with activities of uncertain time and CPM is related with activities of well known time.

✔ 2.
CPM is a probabilistic model and PERT is a deterministic model.

✗ 3.
PERT is an event based method and CPM is an activity based method.

✗ 4.
CPM is developed by Morgan R Walker of DuPont and James E Kelley Jr and PERT is developed by the United States Navy.

Question Type : **MCQ**
Question ID : **387868484**
Option 1 ID : **3878681896**
Option 2 ID : **3878681894**
Option 3 ID : **3878681895**
Option 4 ID : **3878681893**
Status : **Answered**
Chosen Option : **2**

**Q.43** In a levelling work, the staff reading taken to a point of known elevation, so as to determine the height of instrument at an instrument station, is known as:

**Ans** ✔ 1. back sight

✗ 2. height of instrument

✗ 3. change point

✗ 4. fore sight

Question Type : **MCQ**
Question ID : **387868456**
Option 1 ID : **3878681784**
Option 2 ID : **3878681781**
Option 3 ID : **3878681783**
Option 4 ID : **3878681782**
Status : **Answered**
Chosen Option : **1**

**Q.44** Which of the following beams is a statically determinate beam?

**Ans** ✔ 1. Cantilever beam

✗ 2. Fixed beam

✗ 3. Continuous beam

✗ 4. Propped cantilever beam

Question Type : **MCQ**
Question ID : **387868477**
Option 1 ID : **3878681868**
Option 2 ID : **3878681865**
Option 3 ID : **3878681866**
Status : **Answered**

**Q.45** Find the height of water column corresponding to a pressure of 54 kN/m². Take a specific weight of water equal to 9.81 kN/m³.

**Ans**
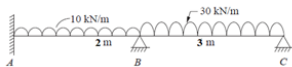
✗ 1. 4.5 m

✗ 2. 6.5 m

✔ 3. 5.5 m

✗ 4. 3.5 m

Question Type : **MCQ**
Question ID : **387868474**
Option 1 ID : **3878681854**
Option 2 ID : **3878681856**
Option 3 ID : **3878681855**
Option 4 ID : **3878681853**
Status : **Answered**
Chosen Option : **3**

**Q.46** Which of the following is an example of Argillaceous rocks?

**Ans**

✗ 1. Quartzite

✗ 2. Granite

✔ 3. Slate

✗ 4. Dolomite

Question Type : **MCQ**
Question ID : **387868451**
Option 1 ID : **3878681763**
Option 2 ID : **3878681762**
Option 3 ID : **3878681761**
Option 4 ID : **3878681764**
Status : **Answered**
Chosen Option : **3**

**Q.47** Find the distribution factors at joint B for a beam shown in the figure below. Assume the same values of modulus of elasticity and moment of inertia, for the spans AB and BC of beams.



**Ans**

✖ 1. $DF_{BA} = \dfrac{0.17}{0.75}$ and $DF_{BC} = \dfrac{0.3}{0.75}$

✔ 2. $DF_{BA} = \dfrac{0.5}{0.75}$ and $DF_{BC} = \dfrac{0.25}{0.75}$

✖ 3. $DF_{BA} = \dfrac{0.35}{0.75}$ and $DF_{BC} = \dfrac{0.45}{0.75}$

✖ 4. $DF_{BA} = \dfrac{0.25}{0.75}$ and $DF_{BC} = \dfrac{0.5}{0.75}$

Question Type : **MCQ**
Question ID : **387868480**
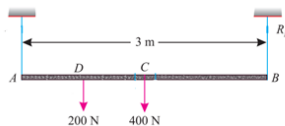Option 1 ID : **3878681879**
Option 2 ID : **3878681877**
Option 3 ID : **3878681880**
Option 4 ID : **3878681878**
Status : **Answered**
Chosen Option : **4**

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**Q.48** A beam of 3 m long weighing 400 N is suspended in a horizontal position by two vertical strings each of which can withstand a maximum tension of 350 N only, as shown in the figure. How far can a body of 200 N weight be placed on a beam from point A so that one of the strings may just break?



**Ans**

✖ 1. 0.35 m

✔ 2. 0.75 m

✖ 3. 0.25 m

✖ 4. 0.85 m

Question Type : **MCQ**
Question ID : **387868510**
Option 1 ID : **3878681998**
Option 2 ID : **3878682000**
Option 3 ID : **3878681997**
Option 4 ID : **3878681999**
Status : **Answered**
Chosen Option : **2**

**Q.49** Which gradient is steeper than the ruling gradient and can be overcome by a train because of the momentum it gathers while running on the section?

**Ans** ✗ 1. Pusher gradient

✗ 2. Ruling gradient

✔ 3. Momentum gradient

✗ 4. Station gradient

Question Type : **MCQ**
Question ID : **387868489**
Option 1 ID : **3878681914**
Option 2 ID : **3878681913**
Option 3 ID : **3878681915**
Option 4 ID : **3878681916**
Status : **Answered**
Chosen Option : **1**

**Q.50** Match the following admixtures with chemicals.

| admixtures | chemicals |
|---|---|
| 1. Air detrained admixture | A. Sodium Nitrate |
| 2. Gas forming admixture | B. Gels |
| 3. Corrosion inhibiting admixtures | C. Try butyl phosphate |
| 4. Grouting admixture | D. Aluminium powder |

**Ans** ✗ 1. 1-C; 2-A; 3-D; 4-B

✔ 2. 1-C; 2-D; 3-A; 4-B

✗ 3. 1-C; 2-D; 3-B; 4-A

✗ 4. 1-D; 2-C; 3-A; 4-B

Question Type : **MCQ**
Question ID : **387868467**
Option 1 ID : **3878681826**
Option 2 ID : **3878681827**
Option 3 ID : **3878681828**
Option 4 ID : **3878681825**
Status : **Answered**
Chosen Option : **3**

**Q.51** What is the maximum slenderness ratio of a steel tension member in which a reversal of direct stress due to loads other than wind or seismic forces occurs?

**Ans**

  ✗ 1. 400

  ✔ 2. 180

  ✗ 3. 150

  ✗ 4. 350

Question Type : **MCQ**

Question ID : **387868493**

Option 1 ID : **3878681932**

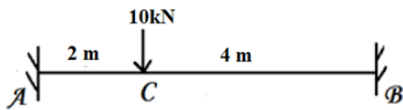Option 2 ID : **3878681930**

Option 3 ID : **3878681929**

Option 4 ID : **3878681931**

Status : **Answered**

Chosen Option : **4**

**Q.52** What are the values of fixed end moments at A ($M_{AB}$) and B ($M_{BA}$) for the fixed beam shown in the figure?



**Ans**

  ✗ 1. $M_{AB} = \dfrac{20}{9}\ kN-m\ and\ M_{BA} = \dfrac{40}{9}\ kN-m$

  ✔ 2. $M_{AB} = \dfrac{80}{9}\ kN-m\ and\ M_{BA} = \dfrac{40}{9}\ kN-m$

  ✗ 3. $M_{AB} = \dfrac{80}{36}\ kN-m\ and\ M_{BA} = \dfrac{40}{36}\ kN-m$

  ✗ 4. $M_{AB} = M_{BA} = \dfrac{60}{36}\ kN-m$

Question Type : **MCQ**

Question ID : **387868479**

Option 1 ID : **3878681873**

Option 2 ID : **3878681876**

Option 3 ID : **3878681874**

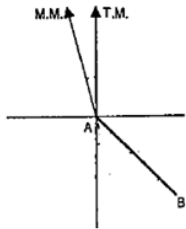Option 4 ID : **3878681875**

Status : **Answered**

Chosen Option : **1**

**Q.53** Oven-dried soil having a mass of 200 g is placed in a pycnometer, which is then completely filled with water. The total mass of the pycnometer with water and soil inside is 1600 g. The mass of the pycnometer filled with water alone is 1500 g. Calculate the specific gravity of soil.

**Ans**

✔ 1. 2.0

✘ 2. 2.25

✘ 3. 2.50

✘ 4. 1.5

Question Type : **MCQ**
Question ID : **387868471**
Option 1 ID : **3878681842**
Option 2 ID : **3878681843**
Option 3 ID : **3878681844**
Option 4 ID : **3878681841**
Status : **Answered**
Chosen Option : **1**

**Q.54** The magnetic bearing of a line AB shown in the figure is S 28 ° 30′ E. Calculate the true bearing if the declination is 7 ° 30′ West.



**Ans**

✔ 1. S 36 ° 00′ E

✘ 2. S 21 ° 00′ E

✘ 3. N 21 ° 00′ W

✘ 4. N 36 ° 00′ E

Question Type : **MCQ**
Question ID : **387868457**
Option 1 ID : **3878681785**
Option 2 ID : **3878681786**
Option 3 ID : **3878681788**
Option 4 ID : **3878681787**
Status : **Answered**
Chosen Option : **1**

**Q.55** A unit vector is defined as:

Ans
- ✗ 1. a vector which are acting in the same direction
- ✗ 2. a vector which are perpendicular to each other
- ✔ 3. a vector whose magnitude is unity
- ✗ 4. a vector which are parallel to each other

Question Type : **MCQ**
Question ID : **387868507**
Option 1 ID : **3878681988**
Option 2 ID : **3878681987**
Option 3 ID : **3878681986**
Option 4 ID : **3878681985**
Status : **Answered**
Chosen Option : **3**

**Q.56** Which of the following is a primary air pollutant?

Ans
- ✗ 1. Formaldehydes
- ✗ 2. Sulphuric acid
- ✔ 3. Hydrocarbons
- ✗ 4. Ozone

Question Type : **MCQ**
Question ID : **387868506**
Option 1 ID : **3878681984**
Option 2 ID : **3878681983**
Option 3 ID : **3878681981**
Option 4 ID : **3878681982**
Status : **Answered**
Chosen Option : **3**

**Q.57** An offset is laid out 5° from its true direction on the field. Find the resulting displacement of the plotted point on the paper in a direction parallel to the chain line, given that the length of the offset is 20 m and the scale is 10 m to 1 cm.

Ans
- ✗ 1. $2(1 - cos5°)$ cm
- ✔ 2. $2sin5°$ cm
- ✗ 3. $2tan5°$ cm
- ✗ 4. $2(1 - tan5°)$ cm

Question Type : **MCQ**
Question ID : **387868455**
Option 1 ID : **3878681778**
Option 2 ID : **3878681777**
Option 3 ID : **3878681779**
Option 4 ID : **3878681780**
Status : **Answered**

**Q.58** A rectangular beam 60 mm wide and 150 mm deep is simply supported over a span of 6 m.
If the beam is subjected to central point load of 10 kN, find the maximum bending stress
induced in the beam section.
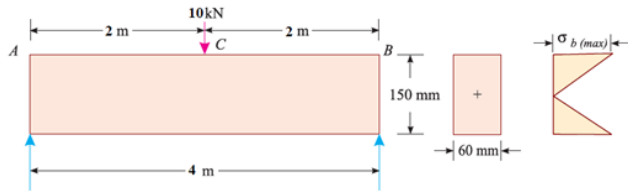


**Ans** ✗ 1. 35.5 MPa

✓ 2. 44.44 MPa

✗ 3. 40.00 MPa

✗ 4. 64.44 MPa

**Q.59** Which of the following is a property of lightweight concrete when compared with normal weight concrete?

**Ans** ✓ 1. Low thermal conductivity

✗ 2. Low modulus of elasticity

✗ 3. High thermal conductivity

✗ 4. High rate of creep

**Q.60** Consider the following project network in which project activities A, B, C, D, E, F and J are shown in circles with their expected time of completion in days. Determine the critical path and the project duration.
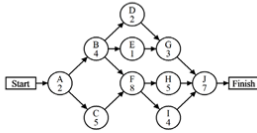


**Ans** ✔ 1.

The critical path is A–C–F–H–J with a completion time of 27 days.

✘ 2.

The critical path is A–B–E–G–J with a completion time of 28 days.

✘ 3.

The critical path is A–C–F–H–J with a completion time of 28 days.

✘ 4.

The critical path is A–B–D–G–J with a completion time of 27 days.

Question Type : **MCQ**
Question ID : **387868485**
Option 1 ID : **3878681898**
Option 2 ID : **3878681899**
Option 3 ID : **3878681897**
Option 4 ID : **3878681900**
Status : **Answered**
Chosen Option : **1**

**Q.61** The following statements are related to the project planning control by network diagrams.

1. The serial activities are those which are to be performed from predecessor to successor.

2. The parallel activities are those which are to be performed simultaneously and independently.

Select the correct option.

**Ans** ✘ 1. Both statements are true.

✔ 2. Statement 1 is wrong and statement 2 is true.

✘ 3. Both statements are wrong.

✘ 4. Statement 1 is true and statement 2 is wrong.

Question Type : **MCQ**
Question ID : **387868483**
Option 1 ID : **3878681891**
Option 2 ID : **3878681890**
Option 3 ID : **3878681892**
Option 4 ID : **3878681889**
Status : **Answered**
Chosen Option : **1**

**Q.62** The following statements are related to municipal solid waste. Select the correct option.

1. The garbage includes all sorts of putrescible organic wastes obtained from kitchens , hotels, restaurants etc.

2. Rubbish include solid wastes originating in households, commercial establishments and institutions excluding garbage and ashes.

**Ans**

✗ 1. Statement 1 is true and Statement 2 is false.

✗ 2. Both statements are false.

✗ 3. Statement 1 is false and Statement 2 is true.

✔ 4. Both statements are true.

Question Type : **MCQ**
Question ID : **387868505**
Option 1 ID : **3878681977**
Option 2 ID : **3878681980**
Option 3 ID : **3878681978**
Option 4 ID : **3878681979**
Status : **Answered**
Chosen Option : **4**

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**Q.63** Which of the following turbines in which the pressure is atmospheric from inlet to the outlet as water flows over the vanes?

**Ans**

✗ 1. Francis turbine

✗ 2. Savonious turbine

✗ 3. Kaplan turbine

✔ 4. Pelton turbine

Question Type : **MCQ**
Question ID : **387868472**
Option 1 ID : **3878681846**
Option 2 ID : **3878681848**
Option 3 ID : **3878681845**
Option 4 ID : **3878681847**
Status : **Answered**
Chosen Option : **4**

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**Q.64** In which year was the Motor vehicle Act brought into effect by the Government of India to regulate road traffic in the form of traffic laws, ordinances and regulations?

**Ans**

✗ 1. 1929

✔ 2. 1939

✗ 3. 1934

✗ 4. 1943

Question Type : **MCQ**
Question ID : **387868486**
Option 1 ID : **3878681903**
Option 2 ID : **3878681902**
Option 3 ID : **3878681904**
Option 4 ID : **3878681901**

**Q.65** According to IS456-2000, the design bond stress in the limit state method for plain bars in tension for M30 grade concrete shall be:

**Ans**

✗ 1. $1.9 \text{ N/mm}^2$

✗ 2. $1.2 \text{ N/mm}^2$

✔ 3. $1.5 \text{ N/mm}^2$

✗ 4. $1.7 \text{ N/mm}^2$

Question Type : **MCQ**
Question ID : **387868494**
Option 1 ID : **3878681936**
Option 2 ID : **3878681933**
Option 3 ID : **3878681934**
Option 4 ID : **3878681935**
Status : **Answered**
Chosen Option : **1**

**Q.66** Match the terminologies and their definitions used in valuations.

| terminologies | definitions |
|---|---|
| 1. Sinking fund | A. The capital sum required to be invested in order to receive a net annual income as an annuity of ₹1 at certain rate of interest. |
| 2. Year's purchase | B. The loss in the value of the property due to its use, life, wear, tear etc. |
| 3. Depreciation | C. The loss in the value of the property due to change in fashions, design and structure etc. |
| 4. Obsolescence | D. The amount to be set aside at fixed interval of time for the end of useful life to accumulate to the initial cost of the property. |

**Ans**

✔ 1. 1-D; 2-A; 3-B; 4-C

✗ 2. 1-B; 2-A; 3-D; 4-C

✗ 3. 1-D; 2-C; 3-B; 4-A

✗ 4. 1-C; 2-A; 3-B; 4-D

Question Type : **MCQ**
Question ID : **387868500**
Option 1 ID : **3878681959**
Option 2 ID : **3878681958**
Option 3 ID : **3878681960**
Option 4 ID : **3878681957**
Status : **Answered**
Chosen Option : **1**

**Q.67** Find the steepest gradient on a 2° curve for a Broad gauge railway line with a ruling gradient of 1 in 200.

**Ans**
  ✔ 1. 1 in 238
  ✘ 2. 1 in 230
  ✘ 3. 1 in 231
  ✘ 4. 1 in 235

> Question Type : **MCQ**
> Question ID : **387868487**
> Option 1 ID : **3878681905**
> Option 2 ID : **3878681906**
> Option 3 ID : **3878681908**
> Option 4 ID : **3878681907**
> Status : **Answered**
> Chosen Option : **1**

**Q.68** According to IS 456-2000, the maximum permissible limit of chloride impurities in present portable water used for plain concrete mixing is:

**Ans**
  ✘ 1. 200 mg/l
  ✘ 2. 500 mg/l
  ✔ 3. 2000 mg/l
  ✘ 4. 1000 mg/l

> Question Type : **MCQ**
> Question ID : **387868464**
> Option 1 ID : **3878681813**
> Option 2 ID : **3878681814**
> Option 3 ID : **3878681816**
> Option 4 ID : **3878681815**
> Status : **Answered**
> Chosen Option : **3**

**Q.69** According to the National building code of India: 2016 (volume 1- part 4), which of the following types of buildings are classified as group B buildings?

**Ans**
  ✔ 1. Educational
  ✘ 2. Business
  ✘ 3. Residential
  ✘ 4. Institutional

> Question Type : **MCQ**
> Question ID : **387868488**
> Option 1 ID : **3878681912**
> Option 2 ID : **3878681911**
> Option 3 ID : **3878681909**
> Option 4 ID : **3878681910**
> Status : **Answered**

**Q.70** Which of the following is observed as a reason for major energy loss inflow of fluids through a pipe?

**Ans**

✔ 1. Loss of energy due to friction

✘ 2. Loss of energy due to bend in pipe

✘ 3. Loss of energy due to an obstruction in pipe

✘ 4. Loss of energy due to sudden enlargement

> Question Type : **MCQ**
> Question ID : **387868491**
> Option 1 ID : **3878681921**
> Option 2 ID : **3878681923**
> Option 3 ID : **3878681924**
> Option 4 ID : **3878681922**
> Status : **Answered**
> Chosen Option : **1**

**Q.71** Which of the following rules is INCORRECT when entering measurements in the measurement book?

**Ans**

✘ 1.
On the right hand side the rate and total value should be entered.

✔ 2. The entry should be made in pencil only.

✘ 3. Actual measurements only should be entered.

✘ 4.
On the left hand side the measurements and quantity should be entered.

> Question Type : **MCQ**
> Question ID : **387868499**
> Option 1 ID : **3878681956**
> Option 2 ID : **3878681955**
> Option 3 ID : **3878681953**
> Option 4 ID : **3878681954**
> Status : **Answered**
> Chosen Option : **1**

**Q.72** The IS 456-2000 recommended value of the effective length of an RCC compression member having unsupported length $L$ shown in the figure, effectively held in position at both ends but not restrained against rotation is:
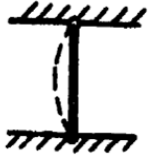


**Ans**
❌ 1. 1.50 L
❌ 2. 0.65 L
❌ 3. 0.80 L
✔️ 4. 1.00 L

Question Type : **MCQ**
Question ID : **387868496**
Option 1 ID : **3878681944**
Option 2 ID : **3878681941**
Option 3 ID : **3878681942**
Option 4 ID : **3878681943**
Status : **Answered**
Chosen Option : **4**

**Q.73** The zeolite process is used to completely remove the _____ in water.

**Ans**
❌ 1. colour
❌ 2. odour
❌ 3. turbidity
✔️ 4. hardness

Question Type : **MCQ**
Question ID : **387868503**
Option 1 ID : **3878681970**
Option 2 ID : **3878681971**
Option 3 ID : **3878681969**
Option 4 ID : **3878681972**
Status : **Answered**
Chosen Option : **4**

**Q.74** A plane lamina of 220 mm radius is shown in the figure given below. Find the centroidal distance $\bar{y}$.
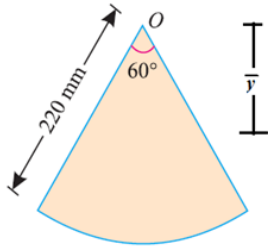


**Ans**
- ✔ 1. 140 mm
- ✘ 2. 130 mm
- ✘ 3. 120 mm
- ✘ 4. 150 mm

Question Type : **MCQ**
Question ID : **387868509**
Option 1 ID : **3878681995**
Option 2 ID : **3878681994**
Option 3 ID : **3878681993**
Option 4 ID : **3878681996**
Status : **Answered**
Chosen Option : **2**

**Q.75** Which of the following is NOT an environmental management tool?

**Ans**
- ✘ 1. Economic assessment
- ✔ 2. Political assessment
- ✘ 3. Life cycle assessment
- ✘ 4. Environment assessment

Question Type : **MCQ**
Question ID : **387868502**
Option 1 ID : **3878681966**
Option 2 ID : **3878681968**
Option 3 ID : **3878681967**
Option 4 ID : **3878681965**
Status : **Answered**
Chosen Option : **1**

**Q.76** What is the unit of measurement of Damp proof course having cement concrete of 4 cm thick and 1 : 2 : 4 mix with one coat of bitumen?

**Ans**
✗ 1. Kilogram

✗ 2. Running metre

✔ 3. Square metre

✗ 4. Cubic metre

Question Type : **MCQ**
Question ID : **387868498**
Option 1 ID : **3878681952**
Option 2 ID : **3878681949**
Option 3 ID : **3878681950**
Option 4 ID : **3878681951**
Status : **Answered**
Chosen Option : **3**

**Q.77** A branch of science which deals with the interactions between living organisms and their physical environment is called:

**Ans**
✔ 1. ecology

✗ 2. hydrogeology

✗ 3. glaciology

✗ 4. hydrology

Question Type : **MCQ**
Question ID : **387868501**
Option 1 ID : **3878681962**
Option 2 ID : **3878681963**
Option 3 ID : **3878681964**
Option 4 ID : **3878681961**
Status : **Answered**
Chosen Option : **1**

**Q.78** Find the moment of inertia of a rectangle shown in the figure about the axis AB.



4 m

A —| |— B
3 m
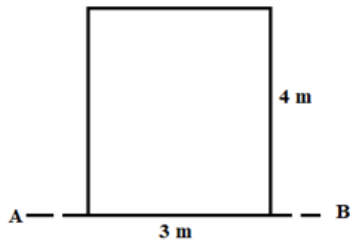
**Ans**

✔ 1. $64 \text{ m}^4$

✘ 2. $84 \text{ m}^4$

✘ 3. $36 \text{ m}^4$

✘ 4. $16 \text{ m}^4$

**Q.79** If $R$ is the radius of a circular channel, $d$ is the depth of water and $2\theta$ is the angle subtended by water surface AB at the centre in radians as shown in the figure. What does the hydraulic radius mean?
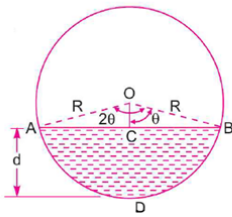


**Ans**

✘ 1. $\dfrac{R}{\theta}\left(\theta - \dfrac{Sin\ 2\theta}{2}\right)$

✘ 2. $\dfrac{R}{2\theta}\left(\theta - \dfrac{Sin\ \theta}{2}\right)$

✘ 3. $\dfrac{R}{2\theta}\left(Sin\theta - \dfrac{Sin\ 2\theta}{2}\right)$

✔ 4. $\dfrac{R}{2\theta}\left(\theta - \dfrac{Sin\ 2\theta}{2}\right)$

**Q.80** In which type of soil classification are the soils classified into 18 groups?

**Ans**

✔ 1. Indian soil classification system

✘ 2. AASTO soil classification system

✘ 3. Massachusetts Institute Technology classification system

✘ 4. Unified soil classification system

Question Type : **MCQ**
Question ID : **387868468**
Option 1 ID : **3878681829**
Option 2 ID : **3878681831**
Option 3 ID : **3878681830**
Option 4 ID : **3878681832**
Status : **Answered**
Chosen Option : **4**

**Q.81** As per IS 456:2000, in reinforced concrete beams, the deflection including the effects of temperature, creep and shrinkage occurring after the erection of partitions and the application of finishes should not normally exceed _____ whichever is less.

**Ans**

✘ 1. span/250 or 10 mm

✔ 2. span/350 or 20 mm

✘ 3. span/500 or 40 mm

✘ 4. span/450 or 30 mm

Question Type : **MCQ**
Question ID : **387868492**
Option 1 ID : **3878681925**
Option 2 ID : **3878681926**
Option 3 ID : **3878681928**
Option 4 ID : **3878681927**
Status : **Answered**
Chosen Option : **2**

**Q.82** Which of the following condition or conditions is true for the identification of zero force member in a truss?

Condition-1: If three members meet at a joint, two of the members are colinear and there is no external force at the joint (applied or reaction), then the third member, out of necessity, must have a zero force.

Condition-2: If two members meet at a joint, they are not colinear and there is no external force at the joint, then out of necessity both member forces must be zero.

**Ans**

✗ 1. Both conditions are wrong

✔ 2. Both conditions are true

✗ 3. Condition- 1 is wrong and Condition-2 is true

✗ 4. Condition -1 is true and Condition -2 is wrong

Question Type : **MCQ**
Question ID : **387868481**
Option 1 ID : **3878681883**
Option 2 ID : **3878681884**
Option 3 ID : **3878681882**
Option 4 ID : **3878681881**
Status : **Answered**
Chosen Option : **2**

**Q.83** What is the purpose of providing rack railways?

**Ans**

✔ 1.
Rack railways are provided to avoid the locomotive train sliding down or slipping back along the downgrade when the gradient is much steeper than 3%.

✗ 2.
Rack railways are provided to avoid the locomotive train sliding down or slipping down at the crossing.

✗ 3.
Rack railways are provided to avoid the locomotive train sliding down or slipping down when the train is moving at a faster speed on a flat surface.

✗ 4.
Rack railways are provided to push the locomotive train by adding an additional engine when the gradient is much steeper than 3%.

Question Type : **MCQ**
Question ID : **387868490**
Option 1 ID : **3878681918**
Option 2 ID : **3878681919**
Option 3 ID : **3878681920**
Option 4 ID : **3878681917**
Status : **Answered**
Chosen Option : **1**

**Q.84** What is the crippling load (P) for the column whose one end is fixed and the other end is free?

Where E- Young's modulus of elasticity, I- Moment of inertia, $l$- is the unsupported length of column.

**Ans**

✗ 1. $P = \dfrac{\pi^2 EI}{l^2}$

✗ 2. $P = \dfrac{4\pi^2 EI}{l^2}$

✗ 3. $P = \dfrac{2\pi^2 EI}{l^2}$

✓ 4. $P = \dfrac{\pi^2 EI}{4l^2}$

Question Type : **MCQ**
Question ID : **387868461**
Option 1 ID : **3878681801**
Option 2 ID : **3878681803**
Option 3 ID : **3878681804**
Option 4 ID : **3878681802**
Status : **Answered**
Chosen Option : **4**

**Q.85** The characteristics of remote sensing image by which the minimum area of the earth's surface can be detected is called:

**Ans**

✗ 1. temporal resolution

✗ 2. radiometric resolution

✗ 3. spectral resolution

✓ 4. spatial resolution

Question Type : **MCQ**
Question ID : **387868458**
Option 1 ID : **3878681790**
Option 2 ID : **3878681791**
Option 3 ID : **3878681792**
Option 4 ID : **3878681789**
Status : **Answered**
Chosen Option : **4**

**Q.86** Which of the following is the correct formula for calculating loss of head due to bend?

Where V is the velocity of flow, g is the acceleration due to gravity and k is the loss coefficient of the pipe fitting under consideration.

**Ans**

✔ 1. $\dfrac{kV^2}{2g}$

✘ 2. $\dfrac{V^2}{2g}$

✘ 3. $\dfrac{0.5V^2}{2g}$

✘ 4. $\dfrac{2g}{kV^2}$

Question Type : **MCQ**

Question ID : **387868473**

Option 1 ID : **3878681851**

Option 2 ID : **3878681850**

Option 3 ID : **3878681852**

Option 4 ID : **3878681849**

Status : **Answered**

Chosen Option : **1**

**Q.87** The ratio of change in void ratio to the change in effective stress is called:

**Ans**

✘ 1. coefficient of permeability

✔ 2. coefficient of compressibility

✘ 3. coefficient of hydraulic conductivity

✘ 4. coefficient of volume change

Question Type : **MCQ**

Question ID : **387868470**

Option 1 ID : **3878681838**

Option 2 ID : **3878681839**

Option 3 ID : **3878681840**

Option 4 ID : **3878681837**

Status : **Answered**

Chosen Option : **2**

**Q.88** A steel rod 1 m long and 20 mm × 20 mm in cross-section is subjected to a tensile force of 40 kN. Determine the elongation of the rod, if the modulus of elasticity for the rod material is 200 GPa.

**Ans**

✗ 1. 1.00 mm

✔ 2. 0.50 mm

✗ 3. 0.25 mm

✗ 4. 0.75 mm

Question Type : **MCQ**
Question ID : **387868462**
Option 1 ID : **3878681808**
Option 2 ID : **3878681806**
Option 3 ID : **3878681805**
Option 4 ID : **3878681807**
Status : **Answered**
Chosen Option : **2**

**Q.89** Cantilever beam of length $l$ carrying uniformly distributed load ($w$/m) is shown in the figure. What is the maximum deflection at the free end B where EI is the flexure rigidity?
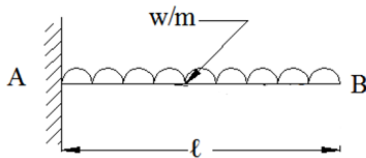


**Ans**

✔ 1. $\dfrac{wl^4}{8EI}$

✗ 2. $\dfrac{wl^3}{6EI}$

✗ 3. $\dfrac{wl^4}{4EI}$

✗ 4. $\dfrac{wl^4}{12EI}$

Question Type : **MCQ**
Question ID : **387868478**
Option 1 ID : **3878681869**
Option 2 ID : **3878681872**
Option 3 ID : **3878681871**
Option 4 ID : **3878681870**
Status : **Answered**
Chosen Option : **1**

**Q.90** A plane truss is subjected to three-point loads as shown in the below figure, calculate the axial force developed in member DE.
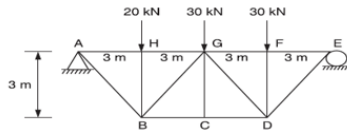


**Ans**

✔ 1. $42.5 * \sqrt{2}$ kN (Tension)

✘ 2. $75.5 * \sqrt{2}$ kN (Tension)

✘ 3. $37.5 * \sqrt{2}$ kN (Tension)

✘ 4. $15.5 * \sqrt{2}$ kN (Tension)

Question Type : **MCQ**
Question ID : **387868495**
Option 1 ID : **3878681938**
Option 2 ID : **3878681940**
Option 3 ID : **3878681937**
Option 4 ID : **3878681939**
Status : **Answered**
Chosen Option : **2**

**Q.91** The following statements are related to the curing of concrete. Select the correct option from the following:

1. Concrete cured at higher temperatures initially leads to lower early strengths.

2. Curing is a process that facilitates hydration.

**Ans**

✔ 1. Statement-1 is false and statement-2 is true.

✘ 2. Both statements are false.

✘ 3. Statement-1 is true and statement-2 is false.

✘ 4. Both statements are true.

Question Type : **MCQ**
Question ID : **387868465**
Option 1 ID : **3878681818**
Option 2 ID : **3878681820**
Option 3 ID : **3878681817**
Option 4 ID : **3878681819**
Status : **Answered**
Chosen Option : **4**

**Q.92** What type of beam is used to connect two spread footing of two-columns?

**Ans**
 ✗ 1.  T-beam

 ✗ 2.  Lintel beam

 ✗ 3.  Plinth beam

 ✓ 4.  Strap beam

Question Type : **MCQ**
Question ID : **387868453**
Option 1 ID : **3878681771**
Option 2 ID : **3878681770**
Option 3 ID : **3878681769**
Option 4 ID : **3878681772**
Status : **Answered**
Chosen Option : **4**

**Q.93** The condensed polymerisation in building material refers to:

**Ans**
 ✗ 1.
the process of addition polymerisation of two or more same monomers

 ✗ 2.
the process of combining two chemically same monomers under high temperature and pressure

 ✗ 3.
the process of simultaneous polymerisation of two or more chemically different monomers

 ✓ 4.
the reaction between functional monomer molecules leading to the formation of a polymer with the elimination of some small molecules

Question Type : **MCQ**
Question ID : **387868452**
Option 1 ID : **3878681766**
Option 2 ID : **3878681768**
Option 3 ID : **3878681765**
Option 4 ID : **3878681767**
Status : **Answered**
Chosen Option : **3**

**Q.94** What type of estimate is required when the sanctioned estimate of the work exceeds by more than 10% of the administration approval?

**Ans**
 ✗ 1.  Supplementary estimate

 ✗ 2.  Detailed estimate

 ✓ 3.  Revised estimate

 ✗ 4.  Approximate estimate

Question Type : **MCQ**
Question ID : **387868497**
Option 1 ID : **3878681947**
Option 2 ID : **3878681945**
Option 3 ID : **3878681946**

Chosen Option : **3**

**Q.95** The void ratio of alluvium soil is 80% with a water content of 30%. Find the degree of saturation of the soil if the specific gravity of soil is 2.

**Ans**
✘ 1. 85%
✘ 2. 60%
✘ 3. 70%
✔ 4. 75%

Question Type : **MCQ**
Question ID : **387868469**
Option 1 ID : **3878681836**
Option 2 ID : **3878681833**
Option 3 ID : **3878681834**
Option 4 ID : **3878681835**
Status : **Answered**
Chosen Option : **4**

**Q.96** Which of the following Bogue compound is called 'Alite' formed during clinkering process of cement?

**Ans**
✔ 1. Tricalcium silicate
✘ 2. Dicalcium silicate
✘ 3. Tetracalcium Alumino Ferrite
✘ 4. Tricalcium aluminate

Question Type : **MCQ**
Question ID : **387868463**
Option 1 ID : **3878681810**
Option 2 ID : **3878681809**
Option 3 ID : **3878681812**
Option 4 ID : **3878681811**
Status : **Answered**
Chosen Option : **1**

**Q.97** The drawing to decide the extent of preliminary design to be carried out at the briefing or reporting stage of the construction project is called:

**Ans**
✘ 1. completion drawing
✘ 2. contract drawing
✔ 3. tender drawing
✘ 4. working drawing

Question Type : **MCQ**
Question ID : **387868482**
Option 1 ID : **3878681888**
Option 2 ID : **3878681886**
Option 3 ID : **3878681887**
Option 4 ID : **3878681885**
Status : **Answered**
Chosen Option : **4**

**Q.98** The branch of engineering mechanics that deals with the forces and their effect acting upon the body at rest are called:

**Ans**
- ✗ 1. statistics
- ✗ 2. kinematics
- ✗ 3. dynamics
- ✔ 4. statics

Question Type : **MCQ**
Question ID : **387868508**
Option 1 ID : **3878681991**
Option 2 ID : **3878681992**
Option 3 ID : **3878681989**
Option 4 ID : **3878681990**
Status : **Answered**
Chosen Option : **4**

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**Q.99** Match List-I (Laws) with List-II (Phenomena) and select the correct answer using the codes given below the lists:

| Laws | phenomena |
|---|---|
| A. Hydrostatic law | 1. Pressure at a point is equal in all directions in a fluid at rest. |
| B. Newton's law | 2. The total energy at a point is constant. |
| C. Pascal's law | 3. Rate of change of pressure in a Vertical direction is proportional to specific weight of fluid. |
| D. Bernoulli's law | 4. Shear stress is directly proportional to velocity gradient in fluid flow. |

**Ans**
- ✗ 1. A-4; B-3; C-1; D-2
- ✔ 2. A-3; B-4; C-1; D-2
- ✗ 3. A-2; B-4; C-1; D-3
- ✗ 4. A-3; B-1; C-4; D-2

Question Type : **MCQ**
Question ID : **387868475**
Option 1 ID : **3878681860**
Option 2 ID : **3878681859**
Option 3 ID : **3878681858**
Option 4 ID : **3878681857**
Status : **Answered**
Chosen Option : **2**

**Q.100** The oil and greases present in waste water is removed through _____.

**Ans**

✗ 1. grit chambers

✗ 2. detritus tanks

✔ 3. skimming tanks

✗ 4. vacuators

Question Type : **MCQ**

Question ID : **387868504**

Option 1 ID : **3878681973**

Option 2 ID : **3878681974**

Option 3 ID : **3878681975**

Option 4 ID : **3878681976**

Status : **Answered**

Chosen Option : **3**

| Participant ID | 123 |
|---|---|
| Participant Name | xyz |
| Test Center Name | iON Digital Zone iDZ Ramtekdi 1 |
| Test Date | 09/08/2022 |
| Test Time | 4:00 PM - 5:30 PM |
| Subject | Cluster 1 |

Section : **English**

**Q.1** **Select the most appropriate ANTONYM of the given word.**

**Defer**

Ans   ✗ 1. Delay

✗ 2. Prolong

✔ 3. Advance

✗ 4. Waive

Question Type : **MCQ**

Question ID : **387868514**

Option 1 ID : **3878682014**

Option 2 ID : **3878682013**

Option 3 ID : **3878682015**

Option 4 ID : **3878682016**

Status : **Answered**

Chosen Option : **3**

**Q.2** **Select the most appropriate meaning of the given idiom.**

**Carrot and stick**

Ans   ✔ 1. Reward and punishment

✗ 2. Good and evil

✗ 3. Loss and gain

✗ 4. Rise and fall

Question Type : **MCQ**

Question ID : **387868516**

Option 1 ID : **3878682022**

Option 2 ID : **3878682021**

Option 3 ID : **3878682023**

Option 4 ID : **3878682024**

Status : **Answered**

**Q.3** Select the most appropriate option to fill in the blank.

We gave up the project because we had _____ hope of its success.

**Ans** ✓ 1. little

✗ 2. a few

✗ 3. a little

✗ 4. few

Question Type : **MCQ**
Question ID : **387868511**
Option 1 ID : **3878682002**
Option 2 ID : **3878682003**
Option 3 ID : **3878682001**
Option 4 ID : **3878682004**
Status : **Answered**
Chosen Option : **3**

**Q.4** Select the most appropriate synonym of the given word.

Incessant

**Ans** ✓ 1. Continuous

✗ 2. Halting

✗ 3. Occasional

✗ 4. Merciful

Question Type : **MCQ**
Question ID : **387868515**
Option 1 ID : **3878682017**
Option 2 ID : **3878682018**
Option 3 ID : **3878682020**
Option 4 ID : **3878682019**
Status : **Answered**
Chosen Option : **1**

**Q.5** Select the most appropriate option to fill in the blank.

He _____ across the river even though the current was very swift.

**Ans** ✓ 1. swam

✗ 2. had swim

✗ 3. swum

✗ 4. would have swam

Question Type : **MCQ**
Question ID : **387868513**
Option 1 ID : **3878682010**
Option 2 ID : **3878682011**
Option 3 ID : **3878682009**
Option 4 ID : **3878682012**
Status : **Answered**
Chosen Option : **1**

**Q.6** Select the most appropriate option to fill in the blank.

I will say _____ his face what I think of his ideas.

**Ans**   ✗ 1. by

   ✗ 2. on

   ✗ 3. at

   ✓ 4. to

Question Type : **MCQ**
Question ID : **387868512**
Option 1 ID : **3878682008**
Option 2 ID : **3878682005**
Option 3 ID : **3878682006**
Option 4 ID : **3878682007**
Status : **Answered**
Chosen Option : **2**

**Q.7** Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. Both his parents were Music Hall artists, who separated when Charlie was very young.
B. Sometimes, Chaplin had to sleep on the streets and forage for food in the garbage.
C. His childhood was very sad, for his mother never earned enough to look after Charlie and his older brother, Sydney.
D. Life wasn't always a laugh for Charles Spencer Chaplin.

**Ans**   ✗ 1. CABD

   ✗ 2. BACD

   ✓ 3. DACB

   ✗ 4. CBDA

Question Type : **MCQ**
Question ID : **387868517**
Option 1 ID : **3878682025**
Option 2 ID : **3878682028**
Option 3 ID : **3878682027**
Option 4 ID : **3878682026**
Status : **Answered**
Chosen Option : **3**

**Comprehension:**

Read the given passage and answer the questions that follow.

Tom Sawyer found Monday morning miserable. He always found it so because it began another week's slow suffering in school. Tom lay thinking. Presently it occurred to him that he wished he was sick; then he could stay home from school. Here was a vague possibility. But no ailment was found. Suddenly, he discovered something. One of his upper front teeth was loose. This was lucky ; he was about to begin to groan, when it occurred to him that his aunt would pull it out, and that would hurt. So, he thought he would hold the tooth in reserve for the present, and seek further. Then he remembered hearing the doctor tell about certain things that threatened to make patients lose a finger. So, the boy eagerly drew his sore toe from under the sheet and held it up for inspection. It seemed worthwhile to chance it, so he fell to groaning with considerable spirit.

**SubQuestion No : 8**

**Q.8  Select the most appropriate synonym of the word**

**'ailment'.**

Ans  ✗ 1. Remedy

✗ 2. Pretext

✗ 3. Relief

✔ 4. Illness

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868521** |
| Option 1 ID : | **3878682038** |
| Option 2 ID : | **3878682037** |
| Option 3 ID : | **3878682039** |
| Option 4 ID : | **3878682040** |
| Status : | **Answered** |
| Chosen Option : | **3** |

**Comprehension:**

Read the given passage and answer the questions that follow.

Tom Sawyer found Monday morning miserable. He always found it so because it began another week's slow suffering in school. Tom lay thinking. Presently it occurred to him that he wished he was sick; then he could stay home from school. Here was a vague possibility. But no ailment was found. Suddenly, he discovered something. One of his upper front teeth was loose. This was lucky ; he was about to begin to groan, when it occurred to him that his aunt would pull it out, and that would hurt. So, he thought he would hold the tooth in reserve for the present, and seek further. Then he remembered hearing the doctor tell about certain things that threatened to make patients lose a finger. So, the boy eagerly drew his sore toe from under the sheet and held it up for inspection. It seemed worthwhile to chance it, so he fell to groaning with considerable spirit.

**SubQuestion No : 9**

**Q.9  Why was Tom miserable on Monday morning?**

Ans  ✗ 1. His loose tooth was hurting.

✔ 2. He would have to go to school.

✗ 3. He had to visit the doctor.

✗ 4. He had a sore toe.

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868519** |
| Option 1 ID : | **3878682030** |
| Option 2 ID : | **3878682031** |

Status : **Answered**

**Comprehension:**

Read the given passage and answer the questions that follow.

Tom Sawyer found Monday morning miserable. He always found it so because it began another week's slow suffering in school. Tom lay thinking. Presently it occurred to him that he wished he was sick; then he could stay home from school. Here was a vague possibility. But no ailment was found. Suddenly, he discovered something. One of his upper front teeth was loose. This was lucky ; he was about to begin to groan, when it occurred to him that his aunt would pull it out, and that would hurt. So, he thought he would hold the tooth in reserve for the present, and seek further. Then he remembered hearing the doctor tell about certain things that threatened to make patients lose a finger. So, the boy eagerly drew his sore toe from under the sheet and held it up for inspection. It seemed worthwhile to chance it, so he fell to groaning with considerable spirit.

**SubQuestion No : 10**

**Q.10 'he thought he would hold the tooth in reserve for the present, ' This implies that:**

Ans   ✘ 1. Tom wanted his aunt to believe he was really in pain

✔ 2. Tom was looking for a better excuse to stay at home

✘ 3. Tom was more worried about losing a finger

✘ 4. Tom would wait for the tooth to fall out on its own

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868520** |
| Option 1 ID : | **3878682036** |
| Option 2 ID : | **3878682034** |
| Option 3 ID : | **3878682035** |
| Option 4 ID : | **3878682033** |
| Status : | **Answered** |
| Chosen Option : | **2** |

Section : **Marathi**

**Q.11 अचूक वाक्यरचना शोधा.**

Ans   ✘ 1. साखरेच्या पाकातले बदाम त्याने वाडीतील प्रत्येकाला वाटले होते मुलीच्या जन्माच्या वेळी त्याच्या.

✘ 2. मुलीच्या त्याच्या जन्माच्या वेळी वाडीतील प्रत्येकाला साखरेच्या पाकातले बदाम त्याने वाटले होते.

✔ 3. त्याच्या मुलीच्या जन्माच्या वेळी त्याने वाडीतील प्रत्येकाला साखरेच्या पाकातले बदाम वाटले होते.

✘ 4. वाडीतील प्रत्येकाला त्याने त्याच्या मुलीच्या जन्माच्या वेळी पाकातले बदाम साखरेच्या वाटले होते.

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868528** |
| Option 1 ID : | **3878682068** |
| Option 2 ID : | **3878682065** |
| Option 3 ID : | **3878682067** |
| Option 4 ID : | **3878682066** |
| Status : | **Answered** |
| Chosen Option : | **3** |

**Q.12** भयानक वादळात मोठी झाडेसुद्धा कोसळली. या वाक्यातील विशेषणे सांगा.

**Ans**
✗ 1. वादळात,कोसळली

✗ 2. भयानक ,झाडेसुद्धा

✓ 3. भयानक,मोठी

✗ 4. मोठी,झाडेसुद्धा

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868523** |
| Option 1 ID : | **3878682045** |
| Option 2 ID : | **3878682048** |
| Option 3 ID : | **3878682047** |
| Option 4 ID : | **3878682046** |
| Status : | **Answered** |
| Chosen Option : | **3** |

**Q.13** 'नाचता येईना अंगण वाकडे' या म्हणीचा योग्य अर्थ सांगा.

**Ans**
✗ 1. एखाद्या गोष्टीशी कोणताच संबंध नसणे

✗ 2. सर्वत्र सारखीच स्थिती असणे

✗ 3. खूप मोठा खर्च करणे

✓ 4. काम करता न आल्यामुळे संबंधित गोष्टीत दोष दाखवणे

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868527** |
| Option 1 ID : | **3878682064** |
| Option 2 ID : | **3878682063** |
| Option 3 ID : | **3878682061** |
| Option 4 ID : | **3878682062** |
| Status : | **Answered** |
| Chosen Option : | **4** |

**Q.14** सुगंध या शब्दाचा विरुद्धार्थी शब्द सांगा.

**Ans**
✓ 1. दुर्गंध

✗ 2. परिमळ

✗ 3. सुवास

✗ 4. गंधयुक्त

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868526** |
| Option 1 ID : | **3878682059** |
| Option 2 ID : | **3878682058** |
| Option 3 ID : | **3878682057** |
| Option 4 ID : | **3878682060** |
| Status : | **Answered** |
| Chosen Option : | **1** |

**Q.15** कोणीही पाणी उभ्याने पिऊ नये , सावकाश बसून प्यावे. या वाक्यातील क्रियाविशेषणे ओळखा.

**Ans** ✔ 1. उभ्याने,सावकाश,बसून

✘ 2. कोणीही,पाणी,प्यावे

✘ 3. पाणी,सावकाश ,नये

✘ 4. उभ्याने,सावकाश,कोणीही

Question Type : **MCQ**
Question ID : **387868522**
Option 1 ID : **3878682041**
Option 2 ID : **3878682044**
Option 3 ID : **3878682042**
Option 4 ID : **3878682043**
Status : **Answered**
Chosen Option : **1**

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**Q.16** पुढीलपैकी कोणता शब्द 'झाड' या शब्दाचा समानार्थी नाही ?

**Ans** ✘ 1. वृक्ष

✔ 2. तारू

✘ 3. तरू

✘ 4. द्रुम

Question Type : **MCQ**
Question ID : **387868525**
Option 1 ID : **3878682054**
Option 2 ID : **3878682055**
Option 3 ID : **3878682053**
Option 4 ID : **3878682056**
Status : **Answered**
Chosen Option : **3**

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**Q.17** "मुलगा पुस्तक वाचत असे. " या वाक्यातील काळ कोणता आहे?

**Ans** ✘ 1. पूर्ण भूतकाळ

✔ 2. रीतिभूतकाळ

✘ 3. अपूर्ण भूतकाळ

✘ 4. साधा भूतकाळ

Question Type : **MCQ**
Question ID : **387868524**
Option 1 ID : **3878682051**
Option 2 ID : **3878682052**
Option 3 ID : **3878682050**
Option 4 ID : **3878682049**
Status : **Answered**
Chosen Option : **2**

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या.

शाळेचा पहिला दिवस म्हणजे रंगीबेरंगी छत्र्यांनी फुललेले आवार. त्यादिवशी प्रत्येक जण शाळेत येई तो आपली नवीन छत्री मिरवण्यासाठीच. आपल्या छत्रीची सर्वांनी स्तुती करावी म्हणून अधीर असणारं ते निरागस बालपण आणि ' माझीच छत्री सुंदर 'असा विश्वास चेहऱ्यावर ठेवून दिमाखात चालणारी ती पाउले. एकदा का या छत्रीचे कौतुक सुरू झाले की गणवेश, वह्या, पुस्तकं असल्या वस्तूंचं कौतुक करतो कोण ?

माझ्या असंख्य आवडत्या वस्तूत या छत्रीचा नंबर पहिला, पण मला ती बालपणात खूप उशिरा मिळाली. पण मला समजत होतं की एकदा का मला छत्री घेतली की माझ्या दोन लहान भावंडांना सुद्धा ती घ्यावी लागणार. तरीही शाळेत जाणाऱ्या माझ्या धाकट्या भावाला आधी छत्री मिळाली. कारण आम्हा मोठ्या बहिणींचा समजूतदारपणा.

आमच्या लहानपणी छत्र्यांचे आकार दोनच ...एक लहान, दुसरा मोठा. रंग दोन किंवा तीन....लाल, काळा, निळा. त्यात आम्हाला वाईट वाटण्याचे कारण म्हणजे भावाला लाल रंगाचे छत्री आमच्या आधी मिळाली. पण तो मराठी शाळेतून घरी आला तो रडतच. आल्याआल्या त्याने छत्री फेकून दिली. त्याला शाळेत सगळ्यांनी 'मुलींची छत्री' म्हणून चिडवले होते.

**SubQuestion No : 18**

**Q.18** भावाने पहिल्या दिवशीच छत्री फेकून दिली कारण....

**Ans**  ✗ 1. पावसात छत्री उलटी झाली होती.

✗ 2. छत्रीचा रंग काळा होता.

✓ 3. त्याला शाळेत चिडवले होते.

✗ 4. छत्रीचा आकार मोठा नव्हता.

Question Type : **MCQ**
Question ID : **387868532**
Option 1 ID : **3878682078**
Option 2 ID : **3878682079**
Option 3 ID : **3878682080**
Option 4 ID : **3878682077**
Status : **Answered**
Chosen Option : **3**

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या.

शाळेचा पहिला दिवस म्हणजे रंगीबेरंगी छत्र्यांनी फुललेले आवार. त्यादिवशी प्रत्येक जण शाळेत येई तो आपली नवीन छत्री मिरवण्यासाठीच. आपल्या छत्रीची सर्वांनी स्तुती करावी म्हणून अधीर असणारं ते निरागस बालपण आणि ' माझीच छत्री सुंदर 'असा विश्वास चेहऱ्यावर ठेवून दिमाखात चालणारी ती पाउले. एकदा का या छत्रीचे कौतुक सुरू झाले की गणवेश, वह्या, पुस्तकं असल्या वस्तूंचं कौतुक करतो कोण ?

माझ्या असंख्य आवडत्या वस्तूत या छत्रीचा नंबर पहिला, पण मला ती बालपणात खूप उशिरा मिळाली. पण मला समजत होतं की एकदा का मला छत्री घेतली की माझ्या दोन लहान भावंडांना सुद्धा ती घ्यावी लागणार. तरीही शाळेत जाणाऱ्या माझ्या धाकट्या भावाला आधी छत्री मिळाली. कारण आम्हा मोठ्या बहिणींचा समजूतदारपणा.

आमच्या लहानपणी छत्र्यांचे आकार दोनच ...एक लहान, दुसरा मोठा. रंग दोन किंवा तीन....लाल, काळा, निळा. त्यात आम्हाला वाईट वाटण्याचे कारण म्हणजे भावाला लाल रंगाचे छत्री आमच्या आधी मिळाली. पण तो मराठी शाळेतून घरी आला तो रडतच. आल्याआल्या त्याने छत्री फेकून दिली. त्याला शाळेत सगळ्यांनी 'मुलींची छत्री' म्हणून चिडवले होते.

**SubQuestion No : 19**

**Q.19** 'ऐट' या अर्थाचा उताऱ्यातील शब्द शोधा.

**Ans** ✘ 1. निरागस

✔ 2. दिमाख

✘ 3. स्तुती

✘ 4. अधीर

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या.

शाळेचा पहिला दिवस म्हणजे रंगीबेरंगी छत्र्यांनी फुललेले आवार. त्यादिवशी प्रत्येक जण शाळेत येई तो आपली नवीन छत्री मिरवण्यासाठीच. आपल्या छत्रीची सर्वांनी स्तुती करावी म्हणून अधीर असणारं ते निरागस बालपण आणि ' माझीच छत्री सुंदर 'असा विश्वास चेहऱ्यावर ठेवून दिमाखात चालणारी ती पाउले. एकदा का या छत्रीचे कौतुक सुरू झाले की गणवेश, वह्या, पुस्तकं असल्या वस्तूंचं कौतुक करतो कोण ?

माझ्या असंख्य आवडत्या वस्तूत या छत्रीचा नंबर पहिला, पण मला ती बालपणात खूप उशिरा मिळाली. पण मला समजत होतं की एकदा का मला छत्री घेतली की माझ्या दोन लहान भावंडांना सुद्धा ती घ्यावी लागणार. तरीही शाळेत जाणाऱ्या माझ्या धाकट्या भावाला आधी छत्री मिळाली. कारण आम्हा मोठ्या बहिणींचा समजूतदारपणा.

आमच्या लहानपणी छत्र्यांचे आकार दोनच ...एक लहान, दुसरा मोठा. रंग दोन किंवा तीन....लाल, काळा, निळा. त्यात आम्हाला वाईट वाटण्याचे कारण म्हणजे भावाला लाल रंगाची छत्री आमच्या आधी मिळाली. पण तो मराठी शाळेतून घरी आला तो रडतच. आल्याआल्या त्याने छत्री फेकून दिली. त्याला शाळेत सगळ्यांनी 'मुलींची छत्री' म्हणून चिडवले होते.

**SubQuestion No : 20**

**Q.20** शाळेत मुलांना कोणत्या गोष्टीचे सर्वात जास्त कौतुक होते?

Ans  ✗ 1. नवीन वह्या

      ✗ 2. नवीन गणवेश

      ✓ 3. नवीन छत्री

      ✗ 4. नवीन पुस्तके

Question Type : **MCQ**
Question ID : **387868530**
Option 1 ID : **3878682069**
Option 2 ID : **3878682072**
Option 3 ID : **3878682071**
Option 4 ID : **3878682070**
Status : **Answered**
Chosen Option : **3**

Section : **General Knowledge**

**Q.21** 2011 च्या जनगणनेनुसार, महाराष्ट्रातील किती जिल्ह्यांमध्ये लिंग गुणोत्तर हे 1000 पेक्षा जास्त (स्त्रिया प्रति हजार पुरुषांच्या तुलनेत) आहे?

Ans  ✗ 1. 4

      ✓ 2. 2

      ✗ 3. 3

      ✗ 4. 1

Question Type : **MCQ**
Question ID : **387868539**
Option 1 ID : **3878682108**
Option 2 ID : **3878682106**
Option 3 ID : **3878682107**
Option 4 ID : **3878682105**
Status : **Answered**
Chosen Option : **2**

**Q.22** जयपूरमधील वस्तू बाजारामध्ये एकविध वस्तूचे उत्पादन करणाऱ्या काही कंपन्या आहेत. वर वर्णन केलेल्या बाजाराच्या संरचनेचे योग्य वर्णन करणारा पर्याय खालील पर्यायांतून निवडा.

**Ans**
✖ 1. परिपूर्ण स्पर्धा

✖ 2. एकाधिकार स्पर्धा

✔ 3. अल्पजनाधिकार

✖ 4. एकाधिकार

Question Type : **MCQ**
Question ID : **387868537**
Option 1 ID : **3878682098**
Option 2 ID : **3878682097**
Option 3 ID : **3878682100**
Option 4 ID : **3878682099**
Status : **Answered**
Chosen Option : **2**

**Q.23** UNEP ने आयोजित केलेल्या 50 व्या जागतिक पर्यावरण दिवस (World Environment Day) 2022 चा विषय काय होता?

**Ans**
✔ 1. ओन्ली वन अर्थ (Only One Earth)

✖ 2. टाईम फॉर नेचर (Time for Nature)

✖ 3. बिटींग प्लास्टिक पोल्युशन (Beating Plastic Pollution)

✖ 4. एयर पोल्युशन (Air pollution)

Question Type : **MCQ**
Question ID : **387868534**
Option 1 ID : **3878682086**
Option 2 ID : **3878682087**
Option 3 ID : **3878682085**
Option 4 ID : **3878682088**
Status : **Answered**
Chosen Option : **1**

**Q.24** महाराष्ट्राच्या नैसर्गिक संसाधनांच्या बाबतीत, नागपूर प्रदेशातील कामटी कशासाठी प्रसिद्ध आहे?

**Ans**
✖ 1. सोने

✔ 2. दगडी कोळसा

✖ 3. जस्त

✖ 4. युरेनियम

Question Type : **MCQ**
Question ID : **387868540**
Option 1 ID : **3878682110**
Option 2 ID : **3878682112**
Option 3 ID : **3878682111**
Option 4 ID : **3878682109**
Status : **Answered**
Chosen Option : **2**

**Q.25** खालीलपैकी कोणते वन्यजीव अभयारण्य शेकरूसाठी (Malabar giant squirrel) प्रसिद्ध आहे?

Ans  ✗ 1. नागझिरा वन्यजीव अभयारण्य

✗ 2. सागरेश्वर वन्यजीव अभयारण्य

✗ 3. मेळघाट वन्यजीव अभयारण्य

✓ 4. भीमाशंकर वन्यजीव अभयारण्य

Question Type : **MCQ**
Question ID : **387868541**
Option 1 ID : **3878682114**
Option 2 ID : **3878682116**
Option 3 ID : **3878682115**
Option 4 ID : **3878682113**
Status : **Answered**
Chosen Option : **4**

**Q.26** भारतीय राज्यघटनेच्या कोणत्या अनुच्छेदानुसार महाराष्ट्रात जिल्हा नियोजन समितीची निर्मिती करण्यात आली?

Ans  ✗ 1. अनुच्छेद 243ZB

✗ 2. अनुच्छेद 243ZA

✓ 3. अनुच्छेद 243ZD

✗ 4. अनुच्छेद 243ZC

Question Type : **MCQ**
Question ID : **387868538**
Option 1 ID : **3878682102**
Option 2 ID : **3878682101**
Option 3 ID : **3878682104**
Option 4 ID : **3878682103**
Status : **Answered**
Chosen Option : **2**

**Q.27** 2022 मध्ये एन्व्हायरमेंट परफॉर्मन्स इंडेक्स (EPI) मध्ये, येल आणि कोलंबिया विद्यापीठांच्या संशोधकांनी केलेल्या विश्लेषणात १८० देशांमध्ये शेवटच्या क्रमांकावर कोणता देश होता?

Ans  ✗ 1. बांग्लादेश

✓ 2. भारत

✗ 3. भूतान

✗ 4. पाकिस्तान

Question Type : **MCQ**
Question ID : **387868535**
Option 1 ID : **3878682091**
Option 2 ID : **3878682092**
Option 3 ID : **3878682089**
Option 4 ID : **3878682090**
Status : **Answered**
Chosen Option : **2**

**Q.28** _____ is a form of financial service which provides small loans and other financial services to poor and low income households.

Ans   ✗ 1. Qualifying Asset

     ✗ 2. Microeconomics

     ✓ 3. Microfinance

     ✗ 4. Over-indebtedness

Question Type : **MCQ**
Question ID : **387868536**
Option 1 ID : **3878682094**
Option 2 ID : **3878682093**
Option 3 ID : **3878682095**
Option 4 ID : **3878682096**
Status : **Answered**
Chosen Option : **3**

**Q.29** मे 2022 मध्ये फ्रान्सचे नवे पंतप्रधान म्हणून कोणाची नियुक्ती करण्यात आली?

Ans   ✗ 1. बोरीस जॉन्सन

     ✗ 2. गुलाम मोहम्मद शाह

     ✓ 3. एलिझाबेथ बोर्न

     ✗ 4. अँथनी अल्बानीझ

Question Type : **MCQ**
Question ID : **387868533**
Option 1 ID : **3878682083**
Option 2 ID : **3878682081**
Option 3 ID : **3878682082**
Option 4 ID : **3878682084**
Status : **Answered**
Chosen Option : **4**

**Q.30** 2011 च्या जनगणनेनुसार, खालीलपैकी कोणत्या जिल्ह्याचे लिंग गुणोत्तर 1000 पेक्षा जास्त आहे?

Ans   ✗ 1. गडचिरोली

     ✗ 2. अकोला

     ✓ 3. सिंधुदुर्ग

     ✗ 4. भंडारा

Question Type : **MCQ**
Question ID : **387868542**
Option 1 ID : **3878682119**
Option 2 ID : **3878682117**
Option 3 ID : **3878682120**
Option 4 ID : **3878682118**
Status : **Answered**
Chosen Option : **3**

Section : **Logical Ability**

**Q.31** तर

A + B म्हणजे A हे B चे वडील आहेत;

A – B म्हणजे A हा B चा भाऊ आहे;

A % B म्हणजे A ही B ची पत्नी आहे;

A × B म्हणजे A ही B ची आई आहे,

मग खालील समीकरणात A चे B शी काय नाते आहे?

A × C % B + D

**Ans**   ✗ 1. आई

✔ 2. सासू

✗ 3. सून

✗ 4. बहीण

Question Type : **MCQ**

Question ID : **387868551**

Option 1 ID : **3878682155**

Option 2 ID : **3878682153**

Option 3 ID : **3878682154**

Option 4 ID : **3878682156**

Status : **Answered**

Chosen Option : **2**

**Q.32** खालील अक्षर, संख्या, चिन्हांची मालिका पहा आणि प्रश्नाचे उत्तर द्या.

(डावी) C 3 G T * R % 8 5 & 9 @ A 2 ^ H 6 J 3 K & % 2 G S U # * P 3 5 L $ (उजवी)

मालिकेतून सर्व अक्षरे वगळली आणि उरलेल्या गोष्टी उलट्या क्रमाने लिहिल्यास, खालीलपैकी काय उजवीकडून आठव्या स्थानापासून डावीकडे असलेल्या गोष्टीच्या तिसऱ्या स्थानी असेल?

**Ans**   ✗ 1. 3

✔ 2. 6

✗ 3. &

✗ 4. ^

Question Type : **MCQ**

Question ID : **387868548**

Option 1 ID : **3878682142**

Option 2 ID : **3878682141**

Option 3 ID : **3878682144**

Option 4 ID : **3878682143**

Status : **Answered**

Chosen Option : **2**

**Q.33** D, E, F, P, Q, R आणि, S हे सात मित्र एका सरळ रेषेत उभे आहेत. त्या सर्वांचे तोंड उत्तरेकडे आहे. Q आणि D मध्ये फक्त तीन व्यक्ती उभ्या आहेत. E हा F च्या उजवीकडे तिसऱ्या स्थानावर उभा आहे. P हा S च्या लगोलग उजव्या बाजूला उभा आहे. F हा सर्वात टोकाला पहिल्या स्थानावर उभा आहे. D च्या डावीकडे फक्त दोन व्यक्ती उभ्या आहेत. R आणि P यांच्या मध्ये किती व्यक्ती आहेत?

**Ans**    ✔ 1. तीन

✘ 2. दोन

✘ 3. शून्य

✘ 4. एक

Question Type : **MCQ**

Question ID : **387868543**

Option 1 ID : **3878682124**

Option 2 ID : **3878682123**

Option 3 ID : **3878682121**

Option 4 ID : **3878682122**

Status : **Answered**

Chosen Option : **1**

**Q.34** Select the figure that will come next in the following figure series.
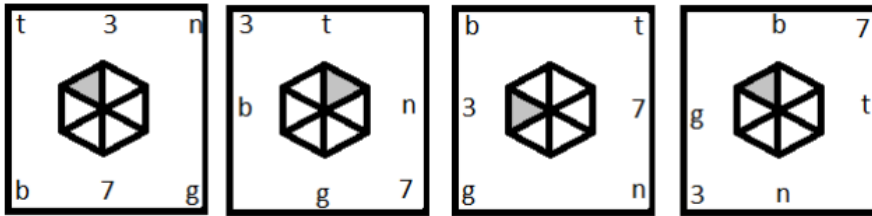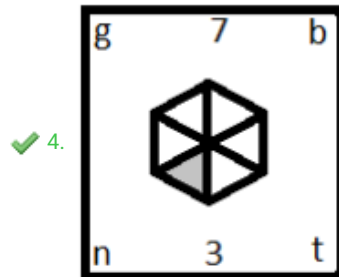


Ans

✗ 1.
✗ 2.
✗ 3.
✔ 4.

**Q.35** S, T, U, V, W आणि X अशा सहा व्यक्ती त्यांच्या वजनानुसार उभ्या आहेत. X हा U पेक्षा वजनाने कमी आहे. S हा U पेक्षा वजनाने जास्त आहे पण V पेक्षा वजनाने कमी आहे. फक्त एक व्यक्ती W पेक्षा वजनाने जास्त आहे. V चे वजन सर्वात जास्त नाही. तर खालीलपैकी कोण W पेक्षा वजनाने जास्त आहे?

**Ans**
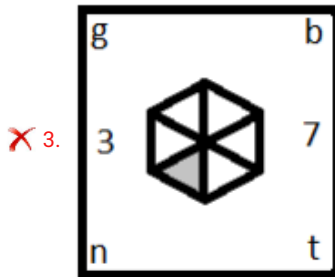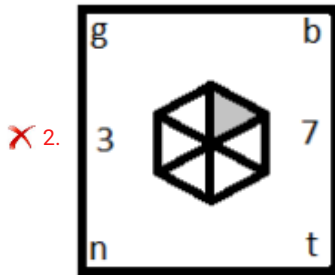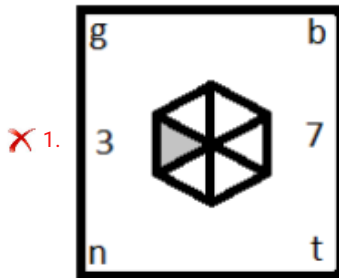  ✅ 1. T

  ❌ 2. V

  ❌ 3. U

  ❌ 4. S

Question Type : **MCQ**
Question ID : **387868546**
Option 1 ID : **3878682134**
Option 2 ID : **3878682136**
Option 3 ID : **3878682135**
Option 4 ID : **3878682133**
Status : **Answered**
Chosen Option : **1**

**Q.36** दिलेली विधाने आणि निष्कर्ष काळजीपूर्वक वाचा. विधानांत दिलेली माहिती सर्वसामान्यपणे ज्ञात तथ्यांपेक्षा भिन्न वाटत असली तरी ती सत्य गृहीत धरा आणि दिलेल्यापैकी कोणता/कोणते निष्कर्ष दिलेल्या विधानाचे तार्किकदृष्ट्या अनुसरण करतो/करतात ते ठरवा.

विधाने:
काही आंबे लाल आहेत.
काही लाल पिकलेले आहेत.
कोणतेही पिकलेले भाजी नाही.

निष्कर्ष:
I. काही भाज्या ह्या नक्कीच आंबे आहेत.
II. काही पिकलेले आंबे आहेत.
III. सर्व लाल आंबे असण्याची शक्यता आहे.
IV. काही भाज्या पिकलेले आहेत.

**Ans**
  ✅ 1. कोणताच निष्कर्ष अनुसरण करत नाही.

  ❌ 2. निष्कर्ष II आणि IV दोन्ही अनुसरण करतात.

  ❌ 3. निष्कर्ष I आणि IV दोन्ही अनुसरण करतात.

  ❌ 4. निष्कर्ष III आणि IV दोन्ही अनुसरण करतात.

Question Type : **MCQ**
Question ID : **387868545**
Option 1 ID : **3878682129**
Option 2 ID : **3878682130**
Option 3 ID : **3878682132**
Option 4 ID : **3878682131**
Status : **Answered**
Chosen Option : **1**

**Q.37** खाली दिलेल्या संख्यांमधील सर्व अंक उलट क्रमाने लिहिल्यास खालीपैकी कोणत्या संख्येला ३ ने भाग जाणार नाही?

765, 189, 945, 236, 591

Ans  ✗ 1. 765

✗ 2. 189

✓ 3. 236

✗ 4. 945

Question Type : **MCQ**
Question ID : **387868549**
Option 1 ID : **3878682147**
Option 2 ID : **3878682146**
Option 3 ID : **3878682148**
Option 4 ID : **3878682145**
Status : **Answered**
Chosen Option : **1**

**Q.38** एका विशिष्ट सांकेतिक भाषेत, 'LOTUS' ला 'PNSRS' आणि 'HOPED' ला 'PJOCC' असे लिहिले जाते. तर त्या भाषेत 'TRUST' कसा लिहिला जाईल?

Ans  ✗ 1. SVTQS

✓ 2. SVTSQ

✗ 3. SVTRR

✗ 4. STVSQ

Question Type : **MCQ**
Question ID : **387868550**
Option 1 ID : **3878682151**
Option 2 ID : **3878682149**
Option 3 ID : **3878682152**
Option 4 ID : **3878682150**
Status : **Answered**
Chosen Option : **1**

**Q.39** पाच मजल्यांच्या इमारतीमध्ये कमल, विमल, अमल, समल आणि अटल हे पाच जण वेगवेगळ्या मजल्यावर राहतात. इमारतीतील सर्वात खालच्या मजल्याचा क्रमांक 1 आहे, त्याच्या वरच्या मजल्याचा क्रमांक 2 आहे आणि अशाच प्रकारे पुढे सर्वात वरच्या मजल्याचा क्रमांक 5 आहे. अमल सम-क्रमांक असलेल्या मजल्यावर राहतो, जो मजला विमल राहतो त्या मजल्याच्या बरोबर खाली आहे. समल सम-क्रमांक असलेल्या मजल्यावर राहतो परंतु तो मजला क्रमांक 4 नाही. कमल राहत असलेल्या मजल्याच्या खाली फक्त दोन व्यक्ती राहतात. तर समल जिथे राहतो त्या मजल्याच्या वर किती व्यक्ती राहतात?

Ans  ✓ 1. तीन

✗ 2. दोन

✗ 3. एक

✗ 4. चार

Question Type : **MCQ**
Question ID : **387868544**
Option 1 ID : **3878682126**
Option 2 ID : **3878682125**
Option 3 ID : **3878682128**
Option 4 ID : **3878682127**
Chosen Option : **1**

**Q.40** Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

AB3C, BD6F, _ _ _ _, DH8L, EJ6O, FL12R, GN10U

**Ans** ✓ 1. CF4I

✗ 2. CF4J

✗ 3. CF10I

✗ 4. CF9I

Question Type : **MCQ**
Question ID : **387868547**
Option 1 ID : **3878682139**
Option 2 ID : **3878682140**
Option 3 ID : **3878682137**
Option 4 ID : **3878682138**
Status : **Answered**
Chosen Option : **2**

Section : **Civil Engineering**

**Q.41** The indentation on one or both of the 4 ½ to 9 in the surface of the brick is called:

**Ans** ✗ 1. freeze

✓ 2. frog

✗ 3. throating

✗ 4. quoin

Question Type : **MCQ**
Question ID : **387868555**
Option 1 ID : **3878682171**
Option 2 ID : **3878682172**
Option 3 ID : **3878682170**
Option 4 ID : **3878682169**
Status : **Answered**
Chosen Option : **2**

**Q.42** The freshly detailed estimate prepared when additional works are found necessary during the progress of the project in addition to the original sanctioned estimate is called:

**Ans** ✗ 1. approximate estimate

✗ 2. revised estimate

✓ 3. supplementary estimate

✗ 4. detailed estimate

Question Type : **MCQ**
Question ID : **387868599**
Option 1 ID : **3878682347**
Option 2 ID : **3878682345**
Option 3 ID : **3878682348**
Option 4 ID : **3878682346**

Chosen Option : **3**

**Q.43** The cross-section area of the steel rod is 100 mm$^2$ and was tested for tension within the elastic region in the laboratory with a tensile force of 50 kN. The rod was elongated by 0.2 mm in a gauge length of 200 mm length. What is the value of Young's modulus of the rod?

**Ans**
✗ 1. 200 GPa
✗ 2. 350 GPa
✗ 3. 250 GPa
✓ 4. 500 GPa

Question Type : **MCQ**
Question ID : **387868564**
Option 1 ID : **3878682205**
Option 2 ID : **3878682207**
Option 3 ID : **3878682206**
Option 4 ID : **3878682208**
Status : **Answered**
Chosen Option : **1**

**Q.44** The ratio of plasticity index to flow index is called:

**Ans**
✗ 1. consistency index
✗ 2. liquidity index
✗ 3. shrinkage index
✓ 4. toughness index

Question Type : **MCQ**
Question ID : **387868570**
Option 1 ID : **3878682230**
Option 2 ID : **3878682231**
Option 3 ID : **3878682229**
Option 4 ID : **3878682232**
Status : **Answered**
Chosen Option : **4**

**Q.45** Which of the following is an example of metamorphic rock used for construction?

**Ans**
✗ 1. Rhyolite
✗ 2. Tuff
✗ 3. Gabbro
✓ 4. Marble

Question Type : **MCQ**
Question ID : **387868588**
Option 1 ID : **3878682303**
Option 2 ID : **3878682304**
Option 3 ID : **3878682302**
Option 4 ID : **3878682301**
Status : **Answered**
Chosen Option : **4**

**Q.46** Which of the following is a secondary air pollutant?

Ans
- ✗ 1. Oxides of carbon
- ✗ 2. Oxides of nitrogen
- ✓ 3. Ozone
- ✗ 4. Oxides of sulphur

Question Type : **MCQ**
Question ID : **387868608**
Option 1 ID : **3878682383**
Option 2 ID : **3878682381**
Option 3 ID : **3878682382**
Option 4 ID : **3878682384**
Status : **Answered**
Chosen Option : **3**

**Q.47** What is the upper and lower limit of particle size used in the sedimentation analysis of soil in the laboratory?

Ans
- ✓ 1. 0.2 mm and 0.0002 mm
- ✗ 2. 0.3 mm and 0.0003 mm
- ✗ 3. 0.1 mm and 0.001 mm
- ✗ 4. 0.1 mm and 0.0001 mm

Question Type : **MCQ**
Question ID : **387868573**
Option 1 ID : **3878682243**
Option 2 ID : **3878682244**
Option 3 ID : **3878682241**
Option 4 ID : **3878682242**
Status : **Answered**
Chosen Option : **1**

**Q.48** Calculate the depth of a point below the water surface in a sea where the pressure intensity is 1098 kN/m² and the specific weight of the seawater is 9.78 kN/m³

Ans
- ✗ 1. 100 m
- ✓ 2. 112.26 m
- ✗ 3. 110 m
- ✗ 4. 108.6 m

Question Type : **MCQ**
Question ID : **387868578**
Option 1 ID : **3878682261**
Option 2 ID : **3878682262**
Option 3 ID : **3878682264**
Option 4 ID : **3878682263**
Status : **Answered**
Chosen Option : **3**

**Q.49** The following statements are related to steel beam.

    1.  A steel beam with a perforated web is called a encased beam.

    2.  A steel beam totally surrounded by concrete is called castellated beam.

Select the correct option.

**Ans**
  ✔ 1.  Both statements are false.

  ✘ 2.  Statement 1 is true and 2 is false.

  ✘ 3.  Statement 1 is false and 2 is true.

  ✘ 4.  Both statements are true.

Question Type : **MCQ**
Question ID : **387868597**
Option 1 ID : **3878682340**
Option 2 ID : **3878682337**
Option 3 ID : **3878682338**
Option 4 ID : **3878682339**
Status : **Answered**
Chosen Option : **4**

**Q.50** The Water (prevention and control of Pollution) Act was enacted by the government of India in the year _____.

**Ans**
  ✘ 1.  1956

  ✔ 2.  1974

  ✘ 3.  1964

  ✘ 4.  1986

Question Type : **MCQ**
Question ID : **387868605**
Option 1 ID : **3878682369**
Option 2 ID : **3878682371**
Option 3 ID : **3878682370**
Option 4 ID : **3878682372**
Status : **Answered**
Chosen Option : **2**

**Q.51** Two unlike parallel forces of magnitude 300N and 50N are acting in such a way that their lines of action are 100 mm apart. Determine the magnitude of the resultant force and the point at which its acts.

**Ans**
  ✔ 1.  20 mm

  ✘ 2.  18 mm

  ✘ 3.  13.4 mm

  ✘ 4.  11.1 mm

Question Type : **MCQ**
Question ID : **387868611**
Option 1 ID : **3878682396**
Option 2 ID : **3878682395**
Option 3 ID : **3878682394**
Status : **Answered**

**Q.52** Select the statically determinate beam from the following.
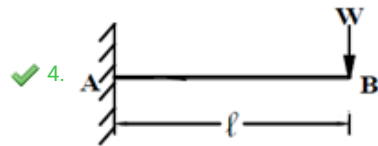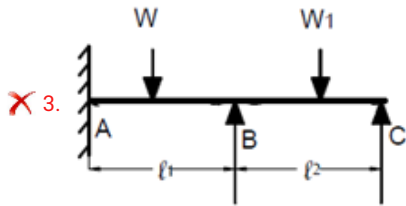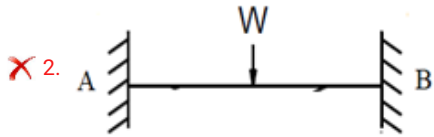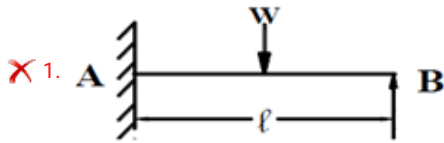
**Ans**

✗ 1.



✗ 2.



✗ 3.



✔ 4.

**Q.53** If 'Q' is the total quantity of water required for various purposes by a town per year and 'p' is the population of the town, then per capita demand will be:

**Ans**

✗ 1. $\dfrac{p}{Q \times 365}$ litres/day

✗ 2. $\dfrac{365}{p \times Q}$ litres/day

✗ 3. $\dfrac{pQ}{365}$ litres/day

✔ 4. $\dfrac{Q}{p \times 365}$ litres/day

**Q.54** If the pitch diameter of a Pelton wheel is 50 mm and the jet diameter is 10 mm, then the jet ratio of a turbine is:

**Ans**
✗ 1. 10.00
✔ 2. 5.00
✗ 3. 0.20
✗ 4. 0.50

Question Type : **MCQ**
Question ID : **387868574**
Option 1 ID : **3878682248**
Option 2 ID : **3878682247**
Option 3 ID : **3878682245**
Option 4 ID : **3878682246**
Status : **Answered**
Chosen Option : **2**

**Q.55** A vehicle was stopped in 1.4 seconds by fully jamming the breaks and the skid marks measured 7.0 m. Determine the average skid resistance.

**Ans**
✗ 1. 0.70
✔ 2. 0.729
✗ 3. 0.730
✗ 4. 0.69

Question Type : **MCQ**
Question ID : **387868589**
Option 1 ID : **3878682306**
Option 2 ID : **3878682305**
Option 3 ID : **3878682308**
Option 4 ID : **3878682307**
Status : **Answered**
Chosen Option : **1**

**Q.56** The permissible stress in axial steel tension member whose yield stress is 100 MPa is _____.

**Ans**
✔ 1. 60
✗ 2. 70
✗ 3. 40
✗ 4. 50

Question Type : **MCQ**
Question ID : **387868595**
Option 1 ID : **3878682331**
Option 2 ID : **3878682332**
Option 3 ID : **3878682329**
Option 4 ID : **3878682330**
Status : **Answered**
Chosen Option : **1**

**Q.57** What is the bearing length under each rail seat for a Broad-Gauge wooden sleeper in Indian railways?

**Ans** ✗ 1. 89 cm

✗ 2. 80 cm

✓ 3. 92 cm

✗ 4. 95 cm

Question Type : **MCQ**

Question ID : **387868591**

Option 1 ID : **3878682315**

Option 2 ID : **3878682313**

Option 3 ID : **3878682314**

Option 4 ID : **3878682316**

Status : **Answered**

Chosen Option : **1**

**Q.58** Select the correct description of 'Horn' component in doors.

**Ans** ✓ 1.
The extra projection of about 100 to 150 mm in length of the frame beyond the opening to fix in the wall.

✗ 2.
It is a piece of timber fixed in an inclined position within a frame.

✗ 3.
It is the recess made inside the door frame to receive the door frame.

✗ 4. It is the outside vertical member of the shutter.

Question Type : **MCQ**

Question ID : **387868556**

Option 1 ID : **3878682176**

Option 2 ID : **3878682175**

Option 3 ID : **3878682173**

Option 4 ID : **3878682174**

Status : **Answered**

Chosen Option : **1**

**Q.59** Cantilever beam of length $l$ carrying uniformly distributed load ($w/m$) is shown in the figure. What is the maximum slope at the free end B where $EI$ is the flexure rigidity?

w/m

A ⌒⌒⌒⌒⌒⌒ B

$l$
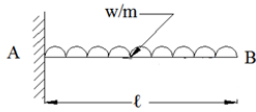
**Ans**

✗ 1. $\dfrac{wl^3}{8EI}$

✔ 2. $\dfrac{wl^3}{6EI}$

✗ 3. $\dfrac{wl^3}{2EI}$

✗ 4. $\dfrac{wl^3}{4EI}$

Question Type : **MCQ**
Question ID : **387868580**
Option 1 ID : **3878682272**
Option 2 ID : **3878682271**
Option 3 ID : **3878682269**
Option 4 ID : **3878682270**
Status : **Answered**
Chosen Option : **2**

**Q.60** In the design of RCC structures, the development Length ($L_d$) of Bar is calculated using which of the following formulas?

Where,

$\phi$ = nominal diameter of the bar,

$\sigma_s$ = stress in bar at the section considered at design load, and

$\tau_{bd}$ = design bond stress

**Ans**

✗ 1. $L_d = \dfrac{\varphi \tau_{bd}}{4\sigma_s}$

✗ 2. $L_d = \dfrac{3\varphi\sigma_s}{4\tau_{bd}}$

✔ 3. $L_d = \dfrac{\varphi\sigma_s}{4\tau_{bd}}$

✗ 4. $L_d = \dfrac{\varphi\sigma_s}{\tau_{bd}}$

Question Type : **MCQ**
Question ID : **387868596**
Option 1 ID : **3878682336**
Option 2 ID : **3878682334**
Option 3 ID : **3878682333**
Option 4 ID : **3878682335**
Status : **Answered**
Chosen Option : **3**

**Q.61** The existence of perfect balance or equilibrium between various organisms in the natural environment is called:

**Ans**

✗ 1. nutrient cycle balance

✗ 2. ecohydrological balance

✗ 3. hydrological balance

✔ 4. ecological balance

Question Type : **MCQ**
Question ID : **387868603**
Option 1 ID : **3878682364**
Option 2 ID : **3878682363**
Option 3 ID : **3878682362**
Option 4 ID : **3878682361**
Status : **Answered**
Chosen Option : **4**

**Q.62** The breakup or detachment of the biomass (biological solids) from the slime layer in the trickling filters of secondary wastewater treatment is known as:

**Ans** ✗ 1. sedimentation

✓ 2. sloughing

✗ 3. flocculation

✗ 4. coagulation

Question Type : **MCQ**
Question ID : **387868606**
Option 1 ID : **3878682373**
Option 2 ID : **3878682376**
Option 3 ID : **3878682375**
Option 4 ID : **3878682374**
Status : **Answered**
Chosen Option : **3**

**Q.63** What is the unit of measurement for Honey-comb brickwork in CM 1 : 4?

**Ans** ✗ 1. Cubic metre

✓ 2. Square metre

✗ 3. Numbers

✗ 4. Per metre

Question Type : **MCQ**
Question ID : **387868600**
Option 1 ID : **3878682351**
Option 2 ID : **3878682350**
Option 3 ID : **3878682352**
Option 4 ID : **3878682349**
Status : **Answered**
Chosen Option : **2**

**Q.64** Which of the following is NOT a function of admixture used in concrete?

**Ans** ✗ 1. To accelerate the initial set of concrete

✓ 2. To increase the rate of bleeding of concrete

✗ 3. To produce cellular concrete

✗ 4. To reduce the segregation in grout and concrete mixtures

Question Type : **MCQ**
Question ID : **387868568**
Option 1 ID : **3878682221**
Option 2 ID : **3878682224**
Option 3 ID : **3878682223**
Option 4 ID : **3878682222**
Status : **Answered**
Chosen Option : **2**

**Q.65** The process of putting the plane table into some fixed direction so that line representing a certain direction on the plane is parallel to that direction on the ground is called:

**Ans**

✗ 1. levelling

✗ 2. centring

✔ 3. orientation

✗ 4. sighting

**Q.66** What is the absolute pressure of a gas at point A in the bulb shown in the figure?
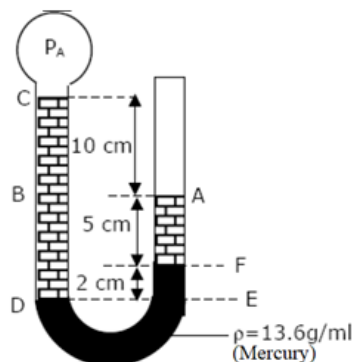


**Ans**

✔ 1. 771.2 mm of Hg

✗ 2. 560.5 mm of Hg

✗ 3. 715.4 mm of Hg

✗ 4. 625.6 mm of Hg

**Q.67** Match the following terminologies and definitions used in valuations.

| Terminologies | Definitions |
|---|---|
| 1. Scrap value | A. The estimated value of a built up property at the end of its useful life without being dismantled. |
| 2. Salvage value | B. The value of the property is fixed by the rate of depreciation. |
| 3. Market value | C. The value of dismantled materials of a built up property at the end of its utility period. |
| 4. Book value | D. The value at which it can be sold in the open domain at particular time. |

**Ans**

✔ 1. 1-C; 2-A; 3-D; 4-B

✘ 2. 1-B; 2-A; 3-D; 4-C

✘ 3. 1-D; 2-A; 3-C; 4-B

✘ 4. 1-C; 2-D; 3-A; 4-B

Question Type : **MCQ**

Question ID : **387868602**

Option 1 ID : **3878682357**

Option 2 ID : **3878682358**

Option 3 ID : **3878682360**

Option 4 ID : **3878682359**

Status : **Answered**

Chosen Option : **1**

**Q.68** The effective stress of soil controls all the following properties, EXCEPT _____.

**Ans**

✘ 1. permeability

✔ 2. bending strength

✘ 3. compressibility

✘ 4. shear strength

Question Type : **MCQ**

Question ID : **387868571**

Option 1 ID : **3878682234**

Option 2 ID : **3878682236**

Option 3 ID : **3878682235**

Option 4 ID : **3878682233**

Status : **Answered**

Chosen Option : **2**

**Q.69** The IS 456-2000 recommended value of the effective length of an RCC compression member having unsupported length $L$ shown in the figure, effectively held in position and restrained against rotation in both ends is:
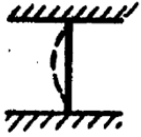


Ans
✔ 1. 0.65 L
✘ 2. 1.00 L
✘ 3. 1.50 L
✘ 4. 0.80 L

Question Type : **MCQ**
Question ID : **387868598**
Option 1 ID : **3878682341**
Option 2 ID : **3878682343**
Option 3 ID : **3878682344**
Option 4 ID : **3878682342**
Status : **Answered**
Chosen Option : **1**

**Q.70** Compute the equivalent radius of the resisting section of a 20 cm slab, given that the radius of the contact area wheel load is 10 cm.

Ans
✔ 1. $\sqrt{560}$ cm
✘ 2. $\sqrt{490}$ cm
✘ 3. $\sqrt{520}$ cm
✘ 4. $\sqrt{450}$ cm

Question Type : **MCQ**
Question ID : **387868590**
Option 1 ID : **3878682312**
Option 2 ID : **3878682310**
Option 3 ID : **3878682311**
Option 4 ID : **3878682309**
Status : **Answered**
Chosen Option : **3**

**Q.71** The timber, which is sawn into planks, posts etc. is called:

**Ans**
✗ 1. durable timber

✗ 2. standing timber

✗ 3. rough timber

✓ 4. lumber timber

Question Type : **MCQ**
Question ID : **387868554**
Option 1 ID : **3878682168**
Option 2 ID : **3878682165**
Option 3 ID : **3878682166**
Option 4 ID : **3878682167**
Status : **Answered**
Chosen Option : **2**

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**Q.72** What is the maximum percentage of water absorption by weight of the burnt clay bricks of class 30 as per IS 1077-1992 when tested in accordance with the standard procedure after immersion in cold water for 24 hours?

**Ans**
✗ 1. 30%

✗ 2. 10%

✗ 3. 40%

✓ 4. 20%

Question Type : **MCQ**
Question ID : **387868553**
Option 1 ID : **3878682163**
Option 2 ID : **3878682161**
Option 3 ID : **3878682164**
Option 4 ID : **3878682162**
Status : **Answered**
Chosen Option : **2**

---

**Q.73** Two distances of 20 and 100 metres were accurately measured out and the intercepts on the staff between the outer stadia webs were 0.196 m at the former distance and 0. 996 at the latter. Calculate the tacheometric constants K and C.

**Ans**
✗ 1. 0.4 and 100

✗ 2. 0 and 100

✓ 3. 100 and 0.4

✗ 4. 100 and 0

Question Type : **MCQ**
Question ID : **387868559**
Option 1 ID : **3878682186**
Option 2 ID : **3878682188**
Option 3 ID : **3878682187**
Option 4 ID : **3878682185**
Status : **Answered**
Chosen Option : **4**

**Q.74** A vehicle has a wheelbase of 6.5 m. What is the off tracking while negotiating a curved path with a mean radius of 32 m?

**Ans**

✗ 1. 0.59 m

✗ 2. 0.77 m

✔ 3. 0.66 m

✗ 4. 0.70 m

Question Type : **MCQ**

Question ID : **387868592**

Option 1 ID : **3878682320**

Option 2 ID : **3878682318**

Option 3 ID : **3878682317**

Option 4 ID : **3878682319**

Status : **Answered**

Chosen Option : **2**

**Q.75** A simple truss is shown in the figure. What is the degree and type of this truss?
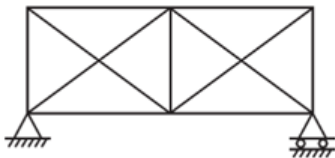


**Ans**

✗ 1. Zero degree perfect truss

✗ 2. One degree space truss

✔ 3. Two degree redundant truss

✗ 4. Two degree deficient truss

Question Type : **MCQ**

Question ID : **387868583**

Option 1 ID : **3878682281**

Option 2 ID : **3878682284**

Option 3 ID : **3878682283**

Option 4 ID : **3878682282**

Status : **Answered**

Chosen Option : **1**

**Q.76** Find the centre of gravity of a segment of height 50 mm of a sphere of radius 80 mm.

**Ans**
✗ 1. 49.3 mm

✗ 2. 55 mm

✗ 3. 45 mm

✓ 4. 47.76 mm

Question Type : **MCQ**
Question ID : **387868610**
Option 1 ID : **3878682391**
Option 2 ID : **3878682392**
Option 3 ID : **3878682389**
Option 4 ID : **3878682390**
Status : **Answered**
Chosen Option : **2**

**Q.77** A fixed beam shown in the figure carries a point load of 20 kN at the centre. How many contraflexure point exist and where does they position?
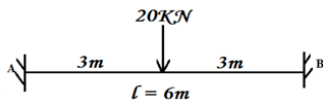


**Ans**
✗ 1. One contraflexure point exists at exactly below 20 kN load.

✗ 2. Zero contraflexure point exists and no position.

✓ 3. Two contraflexure points exists at 1.5 m from A and B.

✗ 4.
Three contraflexure points exists at 1.5 m, 3 m and 4.5 m from point A.

Question Type : **MCQ**
Question ID : **387868581**
Option 1 ID : **3878682274**
Option 2 ID : **3878682273**
Option 3 ID : **3878682275**
Option 4 ID : **3878682276**
Status : **Answered**
Chosen Option : **2**

**Q.78** The engineering project is modelled by the activity network as shown below. The activities are represented by the arcs. The number in brackets on each arc gives the time, in days, to complete the activity. What are the early time and the late time for event 9?
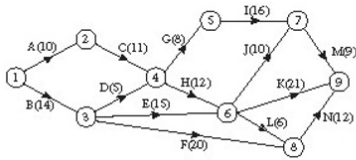


**Ans**

✅ 1. 54, 54

❌ 2. 45, 45

❌ 3. 33, 33

❌ 4. 39, 42

Question Type : **MCQ**

Question ID : **387868587**

Option 1 ID : **3878682297**

Option 2 ID : **3878682298**

Option 3 ID : **3878682300**

Option 4 ID : **3878682299**

Status : **Answered**

Chosen Option : **2**

**Q.79** What is the shear force at point C for the beam subjected to a moment of 15kN-m as shown in the figure? Note: A and B are the simple support with A being downward and B being upward.
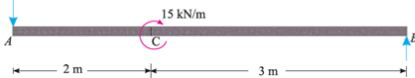


**Ans**

✅ 1. 3kN (Negative)

❌ 2. 6kN (Negative)

❌ 3. 3kN (Positive)

❌ 4. 9kN (Positive)

Question Type : **MCQ**

Question ID : **387868561**

Option 1 ID : **3878682194**

Option 2 ID : **3878682195**

Option 3 ID : **3878682193**

Option 4 ID : **3878682196**

Status : **Answered**

Chosen Option : **2**

**Q.80** What is the effective length of a steel compression member of actual length $L$ which is effectively held in position at both ends but NOT restrained against rotation?

**Ans** ✔ 1. 1.00 L

✘ 2. 2.00 L

✘ 3. 0.80 L

✘ 4. 1.20 L

Question Type : **MCQ**
Question ID : **387868593**
Option 1 ID : **3878682322**
Option 2 ID : **3878682324**
Option 3 ID : **3878682321**
Option 4 ID : **3878682323**
Status : **Answered**
Chosen Option : **2**

**Q.81** The artificial activity which indicates that an activity following it, cannot be started unless the preceding activity is complete, is known as:

**Ans** ✘ 1. constant

✘ 2. free float

✘ 3. event

✔ 4. dummy

Question Type : **MCQ**
Question ID : **387868584**
Option 1 ID : **3878682288**
Option 2 ID : **3878682285**
Option 3 ID : **3878682286**
Option 4 ID : **3878682287**
Status : **Answered**
Chosen Option : **4**

**Q.82** Which of the following is NOT a characteristic of a couple in engineering mechanics?

**Ans** ✔ 1.
The algebraic sum of the moments of the forces, constituting the couple, about any point is the same, and equal to the resultant of the couple itself.

✘ 2.
The algebraic sum of the forces, constituting the couple is zero.

✘ 3.
Any number of coplanar couples can be reduced to a single couple, whose magnitude will be equal to the algebraic sum of the moments of all the couples.

✘ 4.
A couple cannot be balanced by a single force but it can be balanced only by a couple of opposite sense.

Question Type : **MCQ**
Question ID : **387868612**
Option 1 ID : **3878682398**
Option 2 ID : **3878682397**
Option 3 ID : **3878682400**

Chosen Option : **3**

**Q.83** According to IS456-2000, the basic values of span to effective depth ratios for simply supported RCC beam spans up to 10 m is:

**Ans**
- ✗ 1. 34
- ✔ 2. 20
- ✗ 3. 7
- ✗ 4. 26

Question Type : **MCQ**
Question ID : **387868594**
Option 1 ID : **3878682328**
Option 2 ID : **3878682326**
Option 3 ID : **3878682325**
Option 4 ID : **3878682327**
Status : **Answered**
Chosen Option : **2**

**Q.84** The apparatus for conducting the slump test essentially consists of a metallic mould in the form of a frustum of a cone having the internal dimensions as:

**Ans**
- ✗ 1.
  Bottom diameter : 20 cm; Top diameter : 30 cm; Height : 50 cm
- ✗ 2.
  Bottom diameter : 10 cm; Top diameter : 20 cm; Height : 15 cm
- ✗ 3.
  Bottom diameter : 15 cm; Top diameter : 20 cm; Height : 30 cm
- ✔ 4.
  Bottom diameter : 20 cm; Top diameter : 10 cm; Height : 30 cm

Question Type : **MCQ**
Question ID : **387868567**
Option 1 ID : **3878682220**
Option 2 ID : **3878682217**
Option 3 ID : **3878682218**
Option 4 ID : **3878682219**
Status : **Answered**
Chosen Option : **4**

**Q.85** Select the INCORRECT statement from the following.

Ans ✗ 1. The beginning and end of a job are called events.

✓ 2.
The activity which consumes the maximum time, is called a node.

✗ 3.
Logically and sequentially connected activities and events form a network.

✗ 4. The activity is the time consuming part of a project.

Question Type : **MCQ**
Question ID : **387868585**
Option 1 ID : **3878682291**
Option 2 ID : **3878682289**
Option 3 ID : **3878682292**
Option 4 ID : **3878682290**
Status : **Answered**
Chosen Option : **2**

**Q.86** The chainage of the intersection point of two straights is 1060 m, and the angle of intersection is 120°. If the radius of a circular curve to be set out is 570 m, and the peg interval is 30 m, determine the tangent length.

Ans ✗ 1. 330.19 m

✗ 2. 325.09 m

✗ 3. 229.09 m

✓ 4. 329.09 m

Question Type : **MCQ**
Question ID : **387868560**
Option 1 ID : **3878682190**
Option 2 ID : **3878682191**
Option 3 ID : **3878682192**
Option 4 ID : **3878682189**
Status : **Answered**
Chosen Option : **4**

**Q.87** The normal stress and shear stress on a failure plane in a drained test on cohesionless soil are 100 kN/m$^2$ and 50kN/m$^2$.
The angle of shearing resistance is 20°. What is the angle that the failure plane makes with the major principal plane?

Ans ✓ 1. 55°

✗ 2. 25°

✗ 3. 35°

✗ 4. 65°

Question Type : **MCQ**
Question ID : **387868572**
Option 1 ID : **3878682238**
Option 2 ID : **3878682239**
Option 3 ID : **3878682237**
Option 4 ID : **3878682240**

**Q.88** The cost of construction of an underground water tank of capacity 100 m³ is ₹5,00,000. Find the unit rate/litre. Also, find the approximate cost of a similar water tank in the same area to store 2,50,000 litres.

**Ans** ✗ 1.
Unit rate per litre is ₹2.5 and the approximate cost for 250000 litres is ₹100,000.

✗ 2.
Unit rate per litre is ₹8 and the approximate cost for 250000 litres is ₹1,45,000.

✗ 3.
Unit rate per litre is ₹3.5 and the approximate cost for 250000 litres is ₹1,20,000.

✔ 4.
Unit rate per litre is ₹5 and the approximate cost for 250000 litres is ₹1,25,000.

Question Type : **MCQ**
Question ID : **387868601**
Option 1 ID : **3878682353**
Option 2 ID : **3878682356**
Option 3 ID : **3878682354**
Option 4 ID : **3878682355**
Status : **Answered**
Chosen Option : **1**

**Q.89** Which of the following approaches creates perseverance to learn, know practice and strive toward a high level of safety at the job site?

**Ans** ✗ 1. Physical approach

✗ 2. Organisational approach

✔ 3. Economic incentives

✗ 4. Behavioural approach

Question Type : **MCQ**
Question ID : **387868586**
Option 1 ID : **3878682295**
Option 2 ID : **3878682293**
Option 3 ID : **3878682296**
Option 4 ID : **3878682294**
Status : **Answered**
Chosen Option : **4**

**Q.90** Which of the following apparatus should be used for the determination of the soundness of cement in the laboratory?

**Ans** ✗ 1. Blaine's apparatus

✗ 2. Slump cone

✔ 3. Le Chatelier's apparatus

✗ 4. Vicat's apparatus

Question Type : **MCQ**
Question ID : **387868566**
Option 1 ID : **3878682214**
Option 2 ID : **3878682216**
Option 3 ID : **3878682215**
Status : **Answered**

**Q.91** Find the moment of inertia of a triangle shown in the figure about its centroidal axis XX.
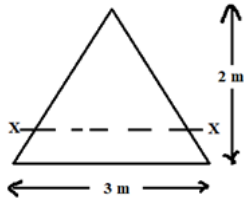


**Ans**

✘ 1. $6.5 \text{ m}^4$

✘ 2. $2 \text{ m}^4$

✔ 3. $0.67 \text{ m}^4$

✘ 4. $4 \text{ m}^4$

Question Type : **MCQ**

Question ID : **387868562**

Option 1 ID : **3878682200**

Option 2 ID : **3878682198**

Option 3 ID : **3878682197**

Option 4 ID : **3878682199**

Status : **Answered**

Chosen Option : **3**

**Q.92** Calculate the loss of head at entrance if pipe of 30 mm diameter is conveying water with a velocity of 2.5 m/s.

**Ans**

✔ 1. 0.159 m

✘ 2. 0.258 m

✘ 3. 0.198 m

✘ 4. 0.480 m

Question Type : **MCQ**

Question ID : **387868576**

Option 1 ID : **3878682254**

Option 2 ID : **3878682253**

Option 3 ID : **3878682255**

Option 4 ID : **3878682256**

Status : **Answered**

Chosen Option : **4**

**Q.93** A continuous beam with one end fixed and another end with overhanging is shown in the figure. What is the degree of static indeterminacy?
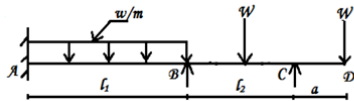


**Ans**
- ✗ 1.  4
- ✗ 2.  2
- ✗ 3.  5
- ✔ 4.  3

Question Type : **MCQ**
Question ID : **387868582**
Option 1 ID : **3878682279**
Option 2 ID : **3878682277**
Option 3 ID : **3878682280**
Option 4 ID : **3878682278**
Status : **Answered**
Chosen Option : **1**

**Q.94** Water hammering is defined as:

**Ans**
- ✗ 1.  sudden rise of vibration in the pipe
- ✔ 2.  sudden rise of pressure in the pipe
- ✗ 3.  sudden rise of noise in the pipe
- ✗ 4.  sudden entry of air in the pipe

Question Type : **MCQ**
Question ID : **387868577**
Option 1 ID : **3878682257**
Option 2 ID : **3878682258**
Option 3 ID : **3878682260**
Option 4 ID : **3878682259**
Status : **Answered**
Chosen Option : **2**

**Q.95** In the theory of simple bending, the bending stress in the beam section varies:

**Ans**
- ✗ 1.  parabolically
- ✗ 2.  elliptically
- ✔ 3.  linearly
- ✗ 4.  harmonically

Question Type : **MCQ**
Question ID : **387868563**
Option 1 ID : **3878682202**
Option 2 ID : **3878682203**

2201
2204

Status : **Answered**

**Q.96** Which of the following artificial light aggregates is used to produce lightweight concrete?

**Ans**
  ✗ 1. Rice husk

  ✗ 2. Pumice

  ✗ 3. Saw dust

  ✔ 4. Sintered fly ash

Question Type : **MCQ**
Question ID : **387868569**
Option 1 ID : **3878682226**
Option 2 ID : **3878682225**
Option 3 ID : **3878682228**
Option 4 ID : **3878682227**
Status : **Answered**
Chosen Option : **2**

**Q.97** The forces generated in a 'Tripod carrying a camera' is an example of:

**Ans**
  ✗ 1. coplanar concurrent force system

  ✔ 2. non-coplanar concurrent force system

  ✗ 3. non-concurrent non-coplanar force system

  ✗ 4. coplanar non-concurrent force system

Question Type : **MCQ**
Question ID : **387868609**
Option 1 ID : **3878682385**
Option 2 ID : **3878682388**
Option 3 ID : **3878682387**
Option 4 ID : **3878682386**
Status : **Answered**
Chosen Option : **1**

**Q.98** The departure and latitude of a forward point with respect to the preceding point is known as the:

**Ans**
  ✗ 1. reference coordinates

  ✔ 2. consecutive coordinates

  ✗ 3. meridian

  ✗ 4. quadrant

Question Type : **MCQ**
Question ID : **387868558**
Option 1 ID : **3878682182**
Option 2 ID : **3878682181**
Option 3 ID : **3878682183**
Option 4 ID : **3878682184**
Status : **Answered**
Chosen Option : **4**

**Q.99** Which of the following is NOT a hydration component of Ordinary Portland Cement?

Ans ✗ 1. Monosulphate

✔ 2. Alite

✗ 3. Ettringite

✗ 4. Calcium hydroxide

Question Type : **MCQ**
Question ID : **387868565**
Option 1 ID : **3878682211**
Option 2 ID : **3878682209**
Option 3 ID : **3878682210**
Option 4 ID : **3878682212**
Status : **Answered**
Chosen Option : **3**

**Q.100** The disposal of municipal solid waste by cutting, tearing, crushing and grinding is called:

Ans ✔ 1. shredding and pulverisation

✗ 2. composting and barging into sea

✗ 3. incineration and thermal pyrolysis

✗ 4. sanitary land filling

Question Type : **MCQ**
Question ID : **387868607**
Option 1 ID : **3878682380**
Option 2 ID : **3878682378**
Option 3 ID : **3878682379**
Option 4 ID : **3878682377**
Status : **Answered**
Chosen Option : **1**

| Participant ID | 123 |
| Participant Name | xyz |
| Test Center Name | iON Digital Zone IDZ Powai |
| Test Date | 12/08/2022 |
| Test Time | 9:00 AM - 10:30 AM |
| Subject | Cluster 1 |

Section : **English**

**Q.1**  **Select the most appropriate option to fill in the blank.**

**Even his _____relatives did not stand by him in his misfortunes.**

Ans  ✘ 1. Next

✘ 2. closer

✔ 3. nearest

✘ 4. nearer

Question Type : **MCQ**
Question ID : **387868613**
Option 1 ID : **3878682401**
Option 2 ID : **3878682402**
Option 3 ID : **3878682404**
Option 4 ID : **3878682403**
Status : **Answered**
Chosen Option : **4**

**Q.2**  **Select the most appropriate synonym of the given word.**

**Exorbitant**

Ans  ✘ 1. Relevant

✔ 2. Excessive

✘ 3. Brilliant

✘ 4. Petulant

Question Type : **MCQ**
Question ID : **387868617**
Option 1 ID : **3878682417**
Option 2 ID : **3878682420**
Option 3 ID : **3878682418**
Option 4 ID : **3878682419**
Status : **Answered**

**Q.3** Select the most appropriate meaning of the given idiom.

**Keep your head**

Ans ✗ 1. Have self-respect

✗ 2. Lose temper

✗ 3. Be arrogant

✔ 4. Remain calm

Question Type : **MCQ**

Question ID : **387868618**

Option 1 ID : **3878682421**

Option 2 ID : **3878682423**

Option 3 ID : **3878682424**

Option 4 ID : **3878682422**

Status : **Answered**

Chosen Option : **2**

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**Q.4** Select the most appropriate ANTONYM of the given word.

**Spontaneous**

Ans ✗ 1. Voluntary

✗ 2. Natural

✗ 3. Casual

✔ 4. Deliberate

Question Type : **MCQ**

Question ID : **387868616**

Option 1 ID : **3878682415**

Option 2 ID : **3878682413**

Option 3 ID : **3878682416**

Option 4 ID : **3878682414**

Status : **Answered**

Chosen Option : **4**

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**Q.5** Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A. And when he emerged, he found he had created a personality everybody loved.
B. A little guy in a bowler hat, a close-fitting jacket, a cane, outsize shoes and a brush-like moustache!
C. The 'Little Tramp', the unforgettable character Charlie Chaplin invented, was born purely by accident in 1915.
D. While rushing to a film shoot in California, he grabbed clothes other people had left behind in the changing room.

Ans ✔ 1. CDAB

✗ 2. BDCA

✗ 3. CBAD

✗ 4. BADC

Question Type : **MCQ**

Question ID : **387868619**

Option 1 ID : **3878682425**

Option 2 ID : **3878682427**

Status : **Answered**

**Q.6** Select the most appropriate option to fill in the blank.

She is _____smarter than all her friends.

Ans ✗ 1. very

✗ 2. quite

✗ 3. more

✓ 4. much

Question Type : **MCQ**
Question ID : **387868614**
Option 1 ID : **3878682407**
Option 2 ID : **3878682405**
Option 3 ID : **3878682408**
Option 4 ID : **3878682406**
Status : **Answered**
Chosen Option : **4**

**Q.7** Select the most appropriate option to fill in the blank.

I cannot recollect where _____my keys.

Ans ✓ 1. I left

✗ 2. had I left

✗ 3. I would have left

✗ 4. did I leave

Question Type : **MCQ**
Question ID : **387868615**
Option 1 ID : **3878682411**
Option 2 ID : **3878682412**
Option 3 ID : **3878682409**
Option 4 ID : **3878682410**
Status : **Answered**
Chosen Option : **2**

**Comprehension:**

Read the given passage and answer the questions that follow.

A sparrow is a small bird which is found throughout the world. There are many different species of sparrows. Sparrows are only about four to six inches in length. Many people appreciate their beautiful song. Sparrows prefer to build their nests in low places – usually on the ground, clumps of grass, low trees and low bushes. In cities they build their nests in building nooks or holes. They rarely build their nests in high places. They build their nests out of twigs, grasses and plant fibres. Their nests are usually small and well-built structures. The sparrows are some of the few birds that engage in dust bathing. Sparrows first scratch a hole in the ground with their feet, then lie in it and fling dirt or sand over their bodies with flicks of their wings. They also bathe in water, or in dry or melting snow. Water bathing is similar to dust bathing, with the sparrow standing in shallow water and flicking water over its back with its wings, also ducking its head under the water. Both activities are social, with up to a hundred birds participating at once.

**SubQuestion No : 8**

**Q.8** **Where is a sparrow's nest most likely to be found in cities?**

**Ans** ✔ 1. Building nooks

✘ 2. High trees

✘ 3. Water bodies

✘ 4. Underground holes

Question Type : **MCQ**

Question ID : **387868621**

Option 1 ID : **3878682430**

Option 2 ID : **3878682431**

Option 3 ID : **3878682432**

Option 4 ID : **3878682429**

Status : **Answered**

Chosen Option : **1**

**Comprehension:**

Read the given passage and answer the questions that follow.

A sparrow is a small bird which is found throughout the world. There are many different species of sparrows. Sparrows are only about four to six inches in length. Many people appreciate their beautiful song. Sparrows prefer to build their nests in low places – usually on the ground, clumps of grass, low trees and low bushes. In cities they build their nests in building nooks or holes. They rarely build their nests in high places. They build their nests out of twigs, grasses and plant fibres. Their nests are usually small and well-built structures. The sparrows are some of the few birds that engage in dust bathing. Sparrows first scratch a hole in the ground with their feet, then lie in it and fling dirt or sand over their bodies with flicks of their wings. They also bathe in water, or in dry or melting snow. Water bathing is similar to dust bathing, with the sparrow standing in shallow water and flicking water over its back with its wings, also ducking its head under the water. Both activities are social, with up to a hundred birds participating at once.

**SubQuestion No : 9**

**Q.9  Which of the following statements is NOT true?**

Ans  ✅ 1. Sparrows fling dust on their bodies with their beaks during a dust bath.

❌ 2. Sparrows build nests out of twigs, grasses and plant fibres.

❌ 3. Sparrows are found throughout the world.

❌ 4. Sparrows are social birds engaging in group activities.

Question Type : **MCQ**
Question ID : **387868622**
Option 1 ID : **3878682434**
Option 2 ID : **3878682436**
Option 3 ID : **3878682433**
Option 4 ID : **3878682435**
Status : **Answered**
Chosen Option : **1**

**Comprehension:**

Read the given passage and answer the questions that follow.

A sparrow is a small bird which is found throughout the world. There are many different species of sparrows. Sparrows are only about four to six inches in length. Many people appreciate their beautiful song. Sparrows prefer to build their nests in low places – usually on the ground, clumps of grass, low trees and low bushes. In cities they build their nests in building nooks or holes. They rarely build their nests in high places. They build their nests out of twigs, grasses and plant fibres. Their nests are usually small and well-built structures. The sparrows are some of the few birds that engage in dust bathing. Sparrows first scratch a hole in the ground with their feet, then lie in it and fling dirt or sand over their bodies with flicks of their wings. They also bathe in water, or in dry or melting snow. Water bathing is similar to dust bathing, with the sparrow standing in shallow water and flicking water over its back with its wings, also ducking its head under the water. Both activities are social, with up to a hundred birds participating at once.

**SubQuestion No : 10**

**Q.10  The given passage is:**

Ans     ✗ 1. narrative

        ✓ 2. informative

        ✗ 3. biographical

        ✗ 4. literary

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868623** |
| Option 1 ID : | **3878682440** |
| Option 2 ID : | **3878682439** |
| Option 3 ID : | **3878682437** |
| Option 4 ID : | **3878682438** |
| Status : | **Answered** |
| Chosen Option : | **3** |

Section : **Marathi**

**Q.11  'जी खोड बाळा, ती जन्मकाळा' या म्हणीचा अर्थ सांगा.**

Ans     ✗ 1. तोंडाने बडबडणारा हाताने काहीच करत नाही.

        ✗ 2. आपण घाबरतो तेच संकट आपल्यापुढे येते.

        ✗ 3. सुरळीत चालणाऱ्या गोष्टीत अडथळा येणे .

        ✓ 4. उपजतच असणारे दुर्गुण कधीच जात नाहीत.

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868629** |
| Option 1 ID : | **3878682462** |
| Option 2 ID : | **3878682461** |
| Option 3 ID : | **3878682464** |
| Option 4 ID : | **3878682463** |
| Status : | **Answered** |
| Chosen Option : | **4** |

**Q.12** अचूक वाक्यरचना शोधा.

Ans  ✅ 1. सगळे कचेरीत परतले तेव्हा कामगारांनी दुपारच्या जेवणाची सुट्टी घेतली होती.

    ❌ 2. कामगारांनी कचेरीत दुपारच्या जेवणाची सुट्टी होती घेतली सगळे परतले तेव्हा

    ❌ 3. दुपारच्या कामगारांनी तेव्हा सगळे कचेरीत परतले जेवणाची सुट्टी घेतली होती.

    ❌ 4. तेव्हा कामगारांनी सगळे परतले कचेरीत सुट्टी दुपारच्या जेवणाची घेतली होती.

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868630** |
| Option 1 ID : | **3878682466** |
| Option 2 ID : | **3878682467** |
| Option 3 ID : | **3878682465** |
| Option 4 ID : | **3878682468** |
| Status : | **Answered** |
| Chosen Option : | **1** |

**Q.13** "त्याने मला पत्ता विचारला". या वाक्यातील काळ ओळखा.

Ans  ❌ 1. अपूर्ण वर्तमानकाळ

    ❌ 2. पूर्ण भूतकाळ

    ✅ 3. साधा भूतकाळ

    ❌ 4. रीतिभूतकाळ

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868626** |
| Option 1 ID : | **3878682450** |
| Option 2 ID : | **3878682449** |
| Option 3 ID : | **3878682451** |
| Option 4 ID : | **3878682452** |
| Status : | **Answered** |
| Chosen Option : | **3** |

**Q.14** पुढीलपैकी कोणती विरुद्धार्थी शब्दांची जोडी नाही?

Ans  ❌ 1. शीघ्र × मंद

    ❌ 2. श्रमजीवी × बुद्धिजीवी

    ✅ 3. सतेज × तेजस्वी

    ❌ 4. रुकार × नकार

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868628** |
| Option 1 ID : | **3878682458** |
| Option 2 ID : | **3878682460** |
| Option 3 ID : | **3878682459** |
| Option 4 ID : | **3878682457** |
| Status : | **Answered** |
| Chosen Option : | **3** |

**Q.15** आम्ही गर्द जंगलातला रोमहर्षक प्रवास सुरू केला. यातील विशेषणे ओळखा.

**Ans**
✔ 1. रोमहर्षक, गर्द

✘ 2. आम्ही ,केला

✘ 3. रोमहर्षक, प्रवास

✘ 4. गर्द,सुरू

Question Type : **MCQ**
Question ID : **387868624**
Option 1 ID : **3878682441**
Option 2 ID : **3878682444**
Option 3 ID : **3878682442**
Option 4 ID : **3878682443**
Status : **Answered**
Chosen Option : **1**

**Q.16** 'त्याच्या घरासमोर विजेचा खांब आहे'. या वाक्यातील शब्दयोगी अव्यय कोणते आहे ?

**Ans**
✘ 1. खांब

✔ 2. समोर

✘ 3. त्याच्या

✘ 4. घर

Question Type : **MCQ**
Question ID : **387868625**
Option 1 ID : **3878682446**
Option 2 ID : **3878682448**
Option 3 ID : **3878682447**
Option 4 ID : **3878682445**
Status : **Answered**
Chosen Option : **2**

**Q.17** पुढीलपैकी कोणता शब्द "पगार" चा समानार्थी नाही?

**Ans**
✘ 1. वेतन

✔ 2. मुजरा

✘ 3. मजुरी

✘ 4. रोजगार

Question Type : **MCQ**
Question ID : **387868627**
Option 1 ID : **3878682453**
Option 2 ID : **3878682454**
Option 3 ID : **3878682455**
Option 4 ID : **3878682456**
Status : **Answered**
Chosen Option : **2**

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्रांची उत्तरे द्या.

तो पंचवीस तीस वर्षांपूर्वीचा काळ, कोकणातल्या एका खेड्यातला. कोकण म्हणजे दुर्गम प्रदेश. दहावीला चांगले मार्क्स मिळाले की सायन्सला धाडले जाई. त्यात मुलींनी मिळवलेल्या चांगल्या मार्क्सचे शाळेत कौतुक असे. मुली घरातील सगळ्या कामांना हातभार लावून ते यश मिळवत असत. माझ्या देवगड गावात सायन्स कॉलेज नव्हते. आणि मला जिल्ह्याच्या ठिकाणी शिक्षणाला पाठवण्याची शक्यता खूप कमी होती. एक तर परिस्थिती बेताची आणि मुलींना बाहेर पाठवणे ही मानसिकताही नव्हती. तरी मी रत्नागिरीला शिक्षणासाठी गेले तेव्हा तो चर्चेचा विषय झाला.

शहरात प्रथमच गेले, गांगरून जाणे साहजिकच होते. रस्ता ओलांडताना भीती वाटायची, कपड्यांची लाज वाटायची. कधीही मी कॉलेज सोडून पळून जाण्याच्या विचारात असे. पण लोक मला काय म्हणतील? या एकाच विचाराने मी तेथे तगून राहिले. त्यावेळी एक समजले की लोक काय म्हणतील याचा विचार करायचा नसतो.

मला सायन्सची डिग्री मिळाली, पण प्रवेश घेताना मोठे वाटलेले शिक्षण आता तुटपुंजे वाटू लागले. आपण शिक्षिका होऊ असे मनात देखील नव्हते, पण त्यात नोकरीची शाश्वती वाटली आणि मी बी.एड. करायचे ठरवले. तोपर्यंत माझ्या गावात बी एड कॉलेज निघाले होते. पुन्हा एक डिग्रीत भर पडली. आता नोकरीचा शोध! म्हणजे वणवण आणि निराशा.... तेव्हा मी किती हळवी झाले होते ते आठवले की आजही रडू फुटते. जुन्या शाळेत नोकऱ्या नव्हत्या, आणि नवीन शाळा गाडीच्या रस्त्यापासून दूर, डोंगरात होती. कुणकेश्वर हे माझ्या गावाजवळचे एक खेडेगाव, त्याच गावात मला नोकरी मिळाली. आज हे महत्त्वाचे पर्यटन स्थळ आहे.

**SubQuestion No : 18**

**Q.18** दहावीनंतर लेखिका कॉलेजसाठी रत्नागिरीत गेली कारण....

**Ans**  ✗ 1. तिचे वडिल रत्नागिरीत नोकरी करत होते .

✗ 2. तिला पुढे रत्नागिरीत बी एड कॉलेज मध्ये प्रवेश घ्यायचा होता.

✔ 3. तिच्या गावात सायन्स कॉलेज नव्हते.

✗ 4. लेखिकेला शिक्षिका व्हायचे होते.

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868633** |
| Option 1 ID : | **3878682473** |
| Option 2 ID : | **3878682476** |
| Option 3 ID : | **3878682475** |
| Option 4 ID : | **3878682474** |
| Status : | **Answered** |
| Chosen Option : | **3** |

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या.

तो पंचवीस तीस वर्षांपूर्वीचा काळ, कोकणातल्या एका खेड्यातला. कोकण म्हणजे दुर्गम प्रदेश. दहावीला चांगले मार्क्स मिळाले की सायन्सला धाडले जाई. त्यात मुलींनी मिळवलेल्या चांगल्या मार्क्सचे शाळेत कौतुक असे. मुली घरातील सगळ्या कामांना हातभार लावून ते यश मिळवत असत. माझ्या देवगड गावात सायन्स कॉलेज नव्हते. आणि मला जिल्ह्याच्या ठिकाणी शिक्षणाला पाठवण्याची शक्यता खूप कमी होती. एक तर परिस्थिती बेताची आणि मुलींना बाहेर पाठवणे ही मानसिकताही नव्हती. तरी मी रत्नागिरीला शिक्षणासाठी गेले तेव्हा तो चर्चेचा विषय झाला.

शहरात प्रथमच गेले, गांगरून जाणे साहजिकच होते. रस्ता ओलांडताना भीती वाटायची, कपड्यांची लाज वाटायची. कधीही मी कॉलेज सोडून पळून जाण्याच्या विचारात असे. पण लोक मला काय म्हणतील? या एकाच विचाराने मी तेथे तगून राहिले. त्यावेळी एक समजले की लोक काय म्हणतील याचा विचार करायचा नसतो.

मला सायन्सची डिग्री मिळाली, पण प्रवेश घेताना मोठे वाटलेले शिक्षण आता तुटपुंजे वाटू लागले. आपण शिक्षिका होऊ असे मनात देखील नव्हते, पण त्यात नोकरीची शाश्वती वाटली आणि मी बी.एड. करायचे ठरवले. तोपर्यंत माझ्या गावात बी एड कॉलेज निघाले होते. पुन्हा एक डिग्रीत भर पडली. आता नोकरीचा शोध! म्हणजे वणवण आणि निराशा.... तेव्हा मी किती हळवी झाले होते ते आठवले की आजही रडू फुटते. जुन्या शाळेत नोकऱ्या नव्हत्या, आणि नवीन शाळा गाडीच्या रस्त्यापासून दूर, डोंगरात होती. कुणकेश्वर हे माझ्या गावाजवळचे एक खेडेगाव, त्याच गावात मला नोकरी मिळाली. आज हे महत्त्वाचे पर्यटन स्थळ आहे.

**SubQuestion No : 19**

Q.19 'हातभार लावणे' या वाक्प्रचाराचा अर्थ काय?

Ans ✅ 1. मदत करणे

❌ 2. गवताचा भारा बांधणे

❌ 3. हजर राहणे

❌ 4. अप्राप्य गोष्ट मिळवणे

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868634** |
| Option 1 ID : | **3878682478** |
| Option 2 ID : | **3878682479** |
| Option 3 ID : | **3878682477** |
| Option 4 ID : | **3878682480** |
| Status : | **Answered** |
| Chosen Option : | **1** |

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या.

तो पंचवीस तीस वर्षांपूर्वीचा काळ, कोकणातल्या एका खेड्यातला. कोकण म्हणजे दुर्गम प्रदेश. दहावीला चांगले मार्क्स मिळाले की सायन्सला धाडले जाई. त्यात मुलींनी मिळवलेल्या चांगल्या मार्क्सचे शाळेत कौतुक असे. मुली घरातील सगळ्या कामांना हातभार लावून ते यश मिळवत असत. माझ्या देवगड गावात सायन्स कॉलेज नव्हते. आणि मला जिल्ह्याच्या ठिकाणी शिक्षणाला पाठवण्याची शक्यता खूप कमी होती. एक तर परिस्थिती बेताची आणि मुलींना बाहेर पाठवणे ही मानसिकताही नव्हती. तरी मी रत्नागिरीला शिक्षणासाठी गेले तेव्हा तो चर्चेचा विषय झाला.

शहरात प्रथमच गेले, गांगरून जाणे साहजिकच होते. रस्ता ओलांडताना भीती वाटायची, कपड्यांची लाज वाटायची. कधीही मी कॉलेज सोडून पळून जाण्याच्या विचारात असे. पण लोक मला काय म्हणतील? या एकाच विचाराने मी तेथे तगून राहिले. त्यावेळी एक समजले की लोक काय म्हणतील याचा विचार करायचा नसतो.

मला सायन्सची डिग्री मिळाली, पण प्रवेश घेताना मोठे वाटलेले शिक्षण आता तुटपुंजे वाटू लागले. आपण शिक्षिका होऊ असे मनात देखील नव्हते, पण त्यात नोकरीची शाश्वती वाटली आणि मी बी.एड. करायचे ठरवले. तोपर्यंत माझ्या गावात बी एड कॉलेज निघाले होते. पुन्हा एका डिग्रीत भर पडली. आता नोकरीचा शोध! म्हणजे वणवण आणि निराशा.... तेव्हा मी किती हळवी झाले होते ते आठवले की आजही रडू फुटते. जुन्या शाळेत नोकऱ्या नव्हत्या, आणि नवीन शाळा गाडीच्या रस्त्यापासून दूर, डोंगरात होती. कुणकेश्वर हे माझ्या गावाजवळचे एक खेडेगाव, त्याच गावात मला नोकरी मिळाली. आज हे महत्त्वाचे पर्यटन स्थळ आहे.

**SubQuestion No : 20**

**Q.20** 'जाण्यास कठीण' अशा अर्थाचा उताऱ्यातील शब्द शोधा.

**Ans** ✖ 1. प्रवेश

✖ 2. शाश्वती

✖ 3. पर्यटन स्थळ

✔ 4. दुर्गम

Question Type : **MCQ**
Question ID : **387868632**
Option 1 ID : **3878682472**
Option 2 ID : **3878682469**
Option 3 ID : **3878682470**
Option 4 ID : **3878682471**
Status : **Answered**
Chosen Option : **4**

Section : **General Knowledge**

**Q.21** भारतीय संविधानाचा कोणता अनुच्छेद महाराष्ट्राच्या राज्यपालांच्या कार्यकाळासंबंधित आहे?

**Ans** ✖ 1. अनुच्छेद 135

✔ 2. अनुच्छेद 156

✖ 3. अनुच्छेद 150

✖ 4. अनुच्छेद 148

Question Type : **MCQ**
Question ID : **387868640**
Option 1 ID : **3878682501**
Option 2 ID : **3878682504**
Option 3 ID : **3878682503**
Option 4 ID : **3878682502**
Status : **Answered**
Chosen Option : **2**

**Q.22** नरेंद्र मोदी यांनी जून 2022 मध्ये नवी दिल्लीतील इंदिरा गांधी स्टेडियममध्ये कितव्या बुद्धिबळ ऑलिम्पियाडच्या ऐतिहासिक टॉर्च रिलेचे उद्घाटन केले?

Ans ✗ 1. 46th

✓ 2. 44th

✗ 3. 49th

✗ 4. 42nd

Question Type : **MCQ**
Question ID : **387868635**
Option 1 ID : **3878682483**
Option 2 ID : **3878682481**
Option 3 ID : **3878682484**
Option 4 ID : **3878682482**
Status : **Answered**
Chosen Option : **1**

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**Q.23** मनी मल्टीप्लायरचा याच्याशी व्यस्त संबंध आहे:

Ans ✗ 1. बँकेचे दर

✓ 2. रोख राखीव प्रमाण

✗ 3. रिव्हर्स रेपो दर

✗ 4. रेपो दर

Question Type : **MCQ**
Question ID : **387868638**
Option 1 ID : **3878682494**
Option 2 ID : **3878682493**
Option 3 ID : **3878682496**
Option 4 ID : **3878682495**
Status : **Answered**
Chosen Option : **3**

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**Q.24** पुढीलपैकी कोणत्या पर्यायात कृष्णा नदीच्या फक्त उजवीकडील उपनद्यांचा समावेश आहे?

Ans ✓ 1. पंचगंगा नदी, तुंगभद्रा नदी, कोयना नदी

✗ 2. भीमा नदी, घटप्रभा नदी, मुसी नदी

✗ 3. कोयना नदी, पंचगंगा नदी, भीमा नदी

✗ 4. तुंगभद्रा नदी, घटप्रभा नदी, मुसी नदी

Question Type : **MCQ**
Question ID : **387868642**
Option 1 ID : **3878682511**
Option 2 ID : **3878682512**
Option 3 ID : **3878682509**
Option 4 ID : **3878682510**
Status : **Answered**
Chosen Option : **1**

**Q.25** खालीलपैकी कोणता व्याघ्र प्रकल्प महाराष्ट्रात नाही?

**Ans**
✗ 1. ताडोबा व्याघ्र प्रकल्प

✗ 2. सह्याद्री व्याघ्र प्रकल्प

✗ 3. बोर व्याघ्र प्रकल्प

✔ 4. मुकुंद्र पर्वत व्याघ्र प्रकल्प

Question Type : **MCQ**
Question ID : **387868644**
Option 1 ID : **3878682518**
Option 2 ID : **3878682520**
Option 3 ID : **3878682517**
Option 4 ID : **3878682519**
Status : **Answered**
Chosen Option : **4**

**Q.26** एकाधिकारी संस्थेसाठी बाजार मागणी वक्र रेखा ____ असते.

**Ans**
✗ 1. चढता वक्र

✗ 2. प्रारंभी सपाट आणि नंतर चढता

✗ 3. प्रारंभी चढता आणि नंतर सपाट

✔ 4. उतरता वक्र

Question Type : **MCQ**
Question ID : **387868639**
Option 1 ID : **3878682497**
Option 2 ID : **3878682500**
Option 3 ID : **3878682499**
Option 4 ID : **3878682498**
Status : **Answered**
Chosen Option : **1**

**Q.27** IQAir's 2021 जागतिक हवा गुणवत्ता अहवालानुसार कोणते शहर सलग दुसऱ्या वर्षी सर्वाधिक प्रदूषित राजधानीचे शहर म्हणून पहिल्या क्रमांकावर होते?

**Ans**
✗ 1. काबूल

✗ 2. सिंगापूर

✔ 3. नवी दिल्ली

✗ 4. अल्जीयर्स

Question Type : **MCQ**
Question ID : **387868636**
Option 1 ID : **3878682486**
Option 2 ID : **3878682488**
Option 3 ID : **3878682485**
Option 4 ID : **3878682487**
Status : **Answered**
Chosen Option : **3**

**Q.28** महाराष्ट्राच्या नाशिक जिल्ह्यातील त्र्यंबक पर्वतरांगेजवळ पश्चिम घाटात गोदावरी नदी _____ च्या उंचीवर जाते.

Ans ✗ 1. 876m

✗ 2. 855 m

✗ 3. 965 m

✔ 4. 1,067 m

Question Type : **MCQ**

Question ID : **387868641**

Option 1 ID : **3878682506**

Option 2 ID : **3878682505**

Option 3 ID : **3878682507**

Option 4 ID : **3878682508**

Status : **Answered**

Chosen Option : **4**

**Q.29** पर्यावरण, वन आणि हवामान बदल मंत्रालयाने जून 2022 मध्ये जारी केलेल्या राजपत्र अधिसूचनेनुसार, केंद्र सरकारने 'एकदाच वापर होणाऱ्या प्लास्टिक'च्या (single-use plastic) वापरावर कधीपासून बंदी घातली आहे?

Ans ✗ 1. 1 सप्टेंबर 2022

✔ 2. 1 जुलै 2022

✗ 3. 1 ऑगस्ट 2022

✗ 4. 15 ऑगस्ट 2022

Question Type : **MCQ**

Question ID : **387868637**

Option 1 ID : **3878682492**

Option 2 ID : **3878682489**

Option 3 ID : **3878682490**

Option 4 ID : **3878682491**

Status : **Answered**

Chosen Option : **2**

**Q.30** पुढीलपैकी महाराष्ट्रातील कोणता जिल्हा फक्त एकाच राज्याच्या सीमेला लागून आहे?

Ans ✔ 1. जळगाव

✗ 2. नांदेड

✗ 3. गोंदिया

✗ 4. गडचिरोली

Question Type : **MCQ**

Question ID : **387868643**

Option 1 ID : **3878682516**

Option 2 ID : **3878682513**

Option 3 ID : **3878682515**

Option 4 ID : **3878682514**

Status : **Answered**

Chosen Option : **1**

Section : **Logical Ability**

**Q.31** दिलेली माहिती काळजीपूर्वक वाचा आणि त्याखालील प्रश्नांची उत्तरे द्या. खालील शाळा मंडळाने इंटरमीडिएट बायो गटात प्रवेश घेण्यासाठी उमेदवारांसाठी खालील निकष निश्चित केले आहेत.

a)उमेदवाराने हायस्कूल परीक्षेत किमान 80% गुण मिळवलेले असावेत.
b)उमेदवाराला प्रवेश परीक्षेत किमान 60% गुण मिळालेले असावेत.
c)उमेदवाराचे वय 1 जुलै 2022 रोजी किमान 15 वर्षे आणि जास्तीत जास्त 22 वर्षे असावे.
d)जिल्हास्तरीय शालेय स्पर्धेत खेळलेल्या उमेदवाराला उच्च वयोमर्यादेत तीन वर्षांची सूट दिली जाईल.
e)उच्च वयोमर्यादा ओलांडलेली परंतु दिलेल्या कट ऑफ तारखेला 24 वर्षांपेक्षा जास्त वय नसलेली स्त्री उमेदवार प्रतिक्षा यादीत समाविष्ट केले जाईल.

वरील निकषांच्या आधारे खालील उमेदवाराची उमेदवारी निश्चित करा आणि योग्य पर्याय निवडून तुमच्या उत्तरावर खूण करा.

रिनाचा जन्म 1999 मध्ये झाला असून तिचा शैक्षणिक रेकॉर्ड खूप चांगला आहे. ती जिल्हास्तरीय बास्केटबॉल खेळाडू आहे आणि तिने राज्यस्तरीय चॅम्पियनशिपमध्ये तिच्या जिल्ह्याचे प्रतिनिधित्व केले आहे. तिने तिची हायस्कूल परीक्षा 90% गुणांसह उत्तीर्ण केली आणि 85% पेक्षा जास्त गुणांसह ती प्रवेश परीक्षेसाठी पात्र ठरली आहे.

**Ans** ✔ 1. प्रवेश दिला जाईल.

✘ 2. प्रवेश दिला जाणार नाही.

✘ 3. उमेदवाराला प्रतीक्षायादीत समाविष्ट केले जाईल.

✘ 4. माहिती अपुरी आहे.

Question Type : **MCQ**
Question ID : **387868651**
Option 1 ID : **3878682545**
Option 2 ID : **3878682546**
Option 3 ID : **3878682548**
Option 4 ID : **3878682547**
Status : **Answered**
Chosen Option : **1**

**Q.32** A, B, C, D, E, F आणि L हे एका कुटुंबातील सात सदस्य सुट्टीवर आहेत. E ही D ची बहीण आहे. A आणि B हे विवाहित जोडपे आहेत. B ही G ची सून आहे. D हा C चा एकुलता एक मुलगा आहे. F ही B ची सासू आहे. C हा A चा भाऊ आहे. F चे G शी काय नाते आहे?

**Ans** ✘ 1. मुलगी

✘ 2. आई

✘ 3. बहीण

✔ 4. पत्नी

Question Type : **MCQ**
Question ID : **387868653**
Option 1 ID : **3878682556**
Option 2 ID : **3878682553**
Option 3 ID : **3878682554**
Option 4 ID : **3878682555**
Status : **Answered**
Chosen Option : **4**

**Q.33** खाली दिलेल्या मालिकेत पुढे येणारी प्रतिमा ओळखा.



**Ans**



✗ 1.

✗ 2.

✔ 3.

✗ 4.
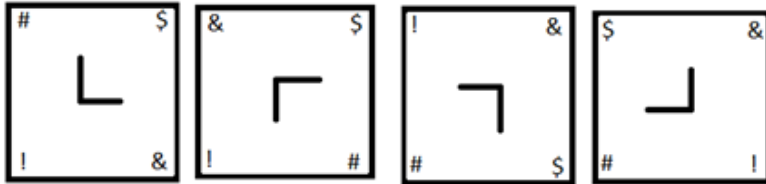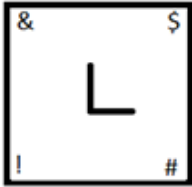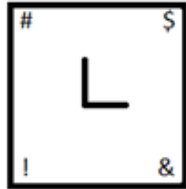
Question Type : **MCQ**
Question ID : **387868654**
Option 1 ID : **3878682559**
Option 2 ID : **3878682560**
Option 3 ID : **3878682558**
Option 4 ID : **3878682557**
Status : **Answered**
Chosen Option : **1**

**Q.34** दिलेली विधाने आणि निष्कर्ष काळजीपूर्वक वाचा. विधानांत दिलेली माहिती सर्वसामान्यपणे ज्ञात तथ्यांपेक्षा भिन्न वाटत असली तरी ती सत्य गृहीत धरा आणि दिलेल्यापैकी कोणता/कोणते निष्कर्ष दिलेल्या विधानाचे तार्किकदृष्ट्या अनुसरण करतो/करतात ते ठरवा.

विधाने:

काही कप बश्या आहेत.

सर्व बश्या चमचे आहेत.

निष्कर्ष:

(I) काही चमचे कप आहेत.

(II) सर्व चमचे बश्या आहेत.

**Ans**  ✗ 1. फक्त निष्कर्ष II अनुसरण करतो.

✗ 2. निष्कर्ष I किंवा II दोन्ही अनुसरण करत नाहीत.

✔ 3. फक्त निष्कर्ष I अनुसरण करतो.

✗ 4. निष्कर्ष I आणि II दोन्ही अनुसरण करतात.

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868647** |
| Option 1 ID : | **3878682530** |
| Option 2 ID : | **3878682532** |
| Option 3 ID : | **3878682529** |
| Option 4 ID : | **3878682531** |
| Status : | **Answered** |
| Chosen Option : | **3** |

**Q.35** A, B, C, D, E आणि F या सहा व्यक्ती वेगवेगळ्या उंचीच्या आहेत. B ही D पेक्षा बुटकी आहे. C ही A पेक्षा बुटकी आहे, पण D पेक्षा उंच आहे. F ही केवळ A पेक्षा बुटकी आहे. E ही दोन व्यक्तींपेक्षा उंच आहे. वरील माहितीनुसार, खालीलपैकी कोणता निष्कर्ष योग्य आहे?

**Ans**  ✗ 1. A = F

✔ 2. B< A

✗ 3. D > C

✗ 4. C > A

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868648** |
| Option 1 ID : | **3878682534** |
| Option 2 ID : | **3878682536** |
| Option 3 ID : | **3878682535** |
| Option 4 ID : | **3878682533** |
| Status : | **Answered** |
| Chosen Option : | **2** |

**Q.36** Select the combination of letters that when sequentially placed in the blanks of the given series will create a repetitive pattern.

S_ _ AS_ _ _ TASBSS_ _ SBS_ _ _SB

**Ans** ✅ 1. STBSSTASTA

❌ 2. STBTASSTAS

❌ 3. SASTTBSSTA

❌ 4. STBSASTAST

Question Type : **MCQ**
Question ID : **387868649**
Option 1 ID : **3878682540**
Option 2 ID : **3878682539**
Option 3 ID : **3878682537**
Option 4 ID : **3878682538**
Status : **Answered**
Chosen Option : **1**

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**Q.37** दिलेल्या अक्षरांच्या मालिकेचा अर्धा भाग जर त्या मालिकेचा दुसरा अर्धा भाग केला आणि नंतर तयार झालेल्या नवीन मालिकेतील समस्थानी असलेले प्रत्येक अक्षर वगळले, तर उजवीकडच्या अक्षरापासून नवव्या स्थानी असलेल्या अक्षराच्या उजवीकडे तिसरे अक्षर कोणते असेल?

A, F, R, G, H, N, J, U, I, O, P, O, I, K, H, G, R, R, F, D, E, R, F, G, Y, H

**Ans** ❌ 1. N

❌ 2. H

✅ 3. F

❌ 4. G

Question Type : **MCQ**
Question ID : **387868650**
Option 1 ID : **3878682541**
Option 2 ID : **3878682543**
Option 3 ID : **3878682544**
Option 4 ID : **3878682542**
Status : **Answered**
Chosen Option : **3**

---

**Q.38** एका स्टेडियममध्ये सात वेगवेगळ्या ट्रॅक्सवर H1, H2, H3, H4, H5, H6 आणि H7 हे सात घोडे उभे आहेत. ते सर्व दक्षिणेकडे तोंड करून उभे आहेत. H1 च्या डावीकडे दोनच घोडे उभे आहेत. H5 आणि H1 यांच्या दरम्यान तीन घोडे उभे आहेत. H4 हा अगदी टोकावरच्या एका ट्रॅकवर उभा आहे आणि H7 हा H4 च्या लगतच उजवीकडे उभा आहे. H3 हा सात ट्रॅक्सच्या अगदी मधोमध उभा आहे. H2 हा H3 च्या नंतर उभा नाही. वरील माहितीच्या आधारे, खालीलपैकी कोणते विधान निश्चितपणे योग्य आहे?

**Ans** ✅ 1. H1 च्या उजवीकडे चार घोडे उभे आहेत.

❌ 2. H1 हा H3 च्या लगतच उजवीकडे उभा आहे.

❌ 3. H2 आणि H6 यांच्या दरम्यान दोन घोडे उभे आहेत.

❌ 4. H4 आणि H5 यांच्या दरम्यान चार घोडे उभे आहेत.

Question Type : **MCQ**
Question ID : **387868645**
Option 1 ID : **3878682524**
Option 2 ID : **3878682522**
Option 3 ID : **3878682523**

**Q.39** रोहितच्या वडलांनी त्याच्यासाठी पाच कप्पे असलेले एक कपाट विकत घेतले. रोहनने त्या कपाटाच्या प्रत्येक कप्प्याला एक विशिष्ट क्रमांक दिला आहे, जसे की सर्वांत वरच्या कप्प्याला 1 हा क्रमांक आणि सर्वांत खालच्या कप्प्याला 5 हा क्रमांक दिला आहे. त्याने त्याच्या सर्व वैयक्तिक वस्तू अशाप्रकारे मांडल्या आहेत जेणेकरून एक वस्तू एका कप्प्यावर ठेवली जाईल. स्टेशनरी असलेल्या कप्प्याच्या बरोबर खाली असलेल्या कपड्यांच्या कप्प्याच्या बरोबर खाली पुस्तके ठेवली आहेत. खेळणी ही पुस्तकांच्या आणि चपलांच्या बरोबर मधोमध आणि कपडे असलेल्या कप्प्याच्या तीन कप्पे खाली ठेवली आहेत. 4थ्या कप्प्यावर कोणती वस्तू ठेवली आहे?

Ans  ✗ 1. कपडे

✗ 2. पुस्तके

✓ 3. खेळणी

✗ 4. साहित्य

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868646** |
| Option 1 ID : | **3878682527** |
| Option 2 ID : | **3878682526** |
| Option 3 ID : | **3878682525** |
| Option 4 ID : | **3878682528** |
| Status : | **Answered** |
| Chosen Option : | **3** |

**Q.40** एका विशिष्ट सांकेतिक भाषेत, 'FRAME' हे 'IUXPB' असे लिहिले जाते आणि 'PICTURE' हे 'SFFWRUB' असे लिहिले जाते. त्याच सांकेतिक भाषेत 'PHOTO' कसे लिहिले जाईल?

Ans  ✗ 1. SKLWR

✗ 2. SFLWL

✓ 3. SKLWL

✗ 4. SFLWR

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868652** |
| Option 1 ID : | **3878682551** |
| Option 2 ID : | **3878682549** |
| Option 3 ID : | **3878682550** |
| Option 4 ID : | **3878682552** |
| Status : | **Answered** |
| Chosen Option : | **3** |

Section : **Civil Engineering**

**Q.41** A building requires 9 numbers of RCC columns of size 0.5 m depth, 0.2 m thickness and 8 m height. Estimate the quantity of steel reinforcement required if the steel reinforcement to be provided is 2% by their gross volume. (Consider unit weight of steel as 7850 kg/m³.)

**Ans**

✗ 1. 8.42 quintal

✗ 2. 16.78 quintal

✗ 3. 6.45 quintal

✓ 4. 11.30 quintal

Question Type : **MCQ**
Question ID : **387868692**
Option 1 ID : **3878682710**
Option 2 ID : **3878682712**
Option 3 ID : **3878682709**
Option 4 ID : **3878682711**
Status : **Answered**
Chosen Option : **1**

**Q.42** Loss of pre-stress due to shrinkage of concrete is called _____.

**Ans**

✗ 1. modulus of elasticity of concrete

✗ 2. modular ratio

✗ 3. concrete stress at the level of steel

✓ 4. shrinkage strain

Question Type : **MCQ**
Question ID : **387868682**
Option 1 ID : **3878682670**
Option 2 ID : **3878682671**
Option 3 ID : **3878682672**
Option 4 ID : **3878682669**
Status : **Answered**
Chosen Option : **4**

**Q.43** Which of the following expressions is correct, to compute moment of inertia about diametric axis of a circular lamina with radius R mm?

Ans

✗ 1. $\frac{\pi R^2}{4}$ mm$^4$

✗ 2. $\frac{\pi R^4}{8}$ mm$^4$

✗ 3. $\frac{\pi R^3}{12}$ mm$^4$

✔ 4. $\frac{\pi R^4}{4}$ mm$^4$

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868686** |
| Option 1 ID : | **3878682686** |
| Option 2 ID : | **3878682687** |
| Option 3 ID : | **3878682688** |
| Option 4 ID : | **3878682685** |
| Status : | **Answered** |
| Chosen Option : | **4** |

**Q.44** If a uniformly distributed load with certain intensity is acting on a beam for a particular span, the variation (shape) of bending moment will be _____.

Ans

✗ 1. semi circular

✗ 2. cubic parabola

✗ 3. linear

✔ 4. parabolic

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868663** |
| Option 1 ID : | **3878682596** |
| Option 2 ID : | **3878682595** |
| Option 3 ID : | **3878682593** |
| Option 4 ID : | **3878682594** |
| Status : | **Answered** |
| Chosen Option : | **4** |

**Q.45** Which of the following methods of road construction proposed that large foundation stones of thickness 17 to 22 cm shall be laid on subgrade with hand with their largest face down so as to be laid in a stable position?

Ans

✗ 1. Metcalf construction

✔ 2. Telford construction

✗ 3. Tresaguet construction

✗ 4. Macadam construction

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868708** |
| Option 1 ID : | **3878682776** |
| Option 2 ID : | **3878682774** |
| Status : | **Answered** |

**Q.46** Which of the following geometric features of road surface is provided to drain off the rain water from road surface at the earliest?

**Ans** ✗ 1. Kerb

✓ 2. Camber

✗ 3. Median

✗ 4. Right of way

Question Type : **MCQ**
Question ID : **387868707**
Option 1 ID : **3878682769**
Option 2 ID : **3878682770**
Option 3 ID : **3878682772**
Option 4 ID : **3878682771**
Status : **Answered**
Chosen Option : **2**

**Q.47** As per IS 800 : 2007, Purlins are designed as _____.

**Ans** ✗ 1. fixed beams

✓ 2. continuous beams

✗ 3. propped cantilever beams

✗ 4. over hanging beams

Question Type : **MCQ**
Question ID : **387868670**
Option 1 ID : **3878682621**
Option 2 ID : **3878682623**
Option 3 ID : **3878682622**
Option 4 ID : **3878682624**
Status : **Answered**
Chosen Option : **4**

**Q.48** As per IRC specifications, what is the minimum width of two lane roads with raised kerbs?

**Ans** ✓ 1. 7.5 m

✗ 2. 9.0 m

✗ 3. 3.5 m

✗ 4. 7.0 m

Question Type : **MCQ**
Question ID : **387868709**
Option 1 ID : **3878682779**
Option 2 ID : **3878682778**
Option 3 ID : **3878682777**
Option 4 ID : **3878682780**
Status : **Answered**
Chosen Option : **1**

**Q.49** As per IS 4954 : 1968, what is the acceptable indoor noise level at hospitals?

Ans  ✗ 1. 45 dB to 55 dB

✔ 2. 35 dB to 40 dB

✗ 3. 10 dB to 25 dB

✗ 4. 40 dB to 60 dB

Question Type : **MCQ**
Question ID : **387868714**
Option 1 ID : **3878682799**
Option 2 ID : **3878682797**
Option 3 ID : **3878682798**
Option 4 ID : **3878682800**
Status : **Answered**
Chosen Option : **2**

**Q.50** The method of population forecast which assumes that the increase in population from decade to decade is constant is _____.

Ans  ✗ 1. geometrical progression method

✗ 2. subtractive decrease method

✔ 3. arithmetic increase method

✗ 4. incremental increase method

Question Type : **MCQ**
Question ID : **387868711**
Option 1 ID : **3878682788**
Option 2 ID : **3878682786**
Option 3 ID : **3878682785**
Option 4 ID : **3878682787**
Status : **Answered**
Chosen Option : **1**

**Q.51** The unit of measurement used for estimating quantity of white washing, colour washing or cement washing is _____.

Ans  ✗ 1. cubic meter

✔ 2. square metre

✗ 3. running metre

✗ 4. tonne

Question Type : **MCQ**
Question ID : **387868691**
Option 1 ID : **3878682708**
Option 2 ID : **3878682706**
Option 3 ID : **3878682705**
Option 4 ID : **3878682707**
Status : **Answered**
Chosen Option : **2**

**Q.52** Which of the following expressions is correct to compute moment of inertia about diametric axis of a semicircular lamina with radius R mm?

Ans

✗ 1. $\dfrac{\pi R^2}{2}$ mm$^4$

✗ 2. $\dfrac{\pi R^4}{4}$ mm$^4$

✔ 3. $\dfrac{\pi R^4}{8}$ mm$^4$

✗ 4. $\dfrac{\pi R^3}{36}$ mm$^4$

Question Type : **MCQ**
Question ID : **387868661**
Option 1 ID : **3878682586**
Option 2 ID : **3878682585**
Option 3 ID : **3878682587**
Option 4 ID : **3878682588**
Status : **Answered**
Chosen Option : **3**

**Q.53** As per IS: 10500, what is the maximum acceptable limit of fluoride content (in mg/l) in drinking water?

Ans

✗ 1. 5 mg/l

✗ 2. 10 mg/l

✗ 3. 500 mg/l

✔ 4. 1 mg/l

Question Type : **MCQ**
Question ID : **387868712**
Option 1 ID : **3878682790**
Option 2 ID : **3878682791**
Option 3 ID : **3878682792**
Option 4 ID : **3878682789**
Status : **Answered**
Chosen Option : **4**

**Q.54** Find the duty of water, if a crop requires a total depth of 100 cm water for a base period of 24-24 hours.

Ans

✗ 1. 1050.41 hectares/cumec

✔ 2. 872.64 hectares/cumec

✗ 3. 740.58 hectares/cumec

✗ 4. 966.87 hectares/cumec

Question Type : **MCQ**
Question ID : **387868695**
Option 1 ID : **3878682724**
Option 2 ID : **3878682722**
Option 3 ID : **3878682721**
Chosen Option : **2**

**Q.55** The Proctor test is performed on soil mass for _____.

Ans  ✗ 1. finding coefficient of curvature

✔ 2. assessing its degree of compaction

✗ 3. finding coefficient of uniformity

✗ 4. particle size analysis

Question Type : **MCQ**
Question ID : **387868705**
Option 1 ID : **3878682762**
Option 2 ID : **3878682764**
Option 3 ID : **3878682761**
Option 4 ID : **3878682763**
Status : **Answered**
Chosen Option : **2**

**Q.56** Identify the cross drainage work shown in the given figure.
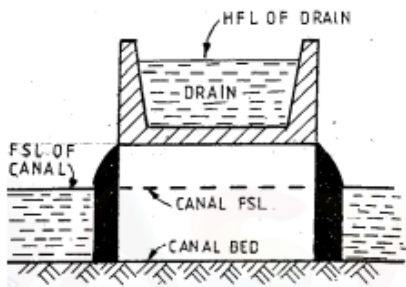


Ans  ✗ 1. Aqueduct

✔ 2. Super passage

✗ 3. Level crossing

✗ 4. Syphon aqueduct

Question Type : **MCQ**
Question ID : **387868698**
Option 1 ID : **3878682735**
Option 2 ID : **3878682733**
Option 3 ID : **3878682736**
Option 4 ID : **3878682734**
Status : **Answered**
Chosen Option : **2**

**Q.57** A line XY has a whole circle bearing (WCB) between 90° and 180°, then the correct expression used to calculate reduced bearing (RB) is:

Ans
- ✗ 1. $RB = 360° − WCB$
- ✗ 2. $RB = 90° + WCB$
- ✔ 3. $RB = 180° − WCB$
- ✗ 4. $RB = WCB$

Question Type : **MCQ**
Question ID : **387868689**
Option 1 ID : **3878682700**
Option 2 ID : **3878682699**
Option 3 ID : **3878682698**
Option 4 ID : **3878682697**
Status : **Answered**
Chosen Option : **3**

**Q.58** Calculate the quantity of earthwork using Mid Sectional Area Method, for a portion of a road. (Height of banks at the two ends of the road being 3 m and 2 m, formation width = 12 m, length = 50 m, side slopes = 2 : 1 (H : V))

Ans
- ✗ 1. $2460 \text{ m}^3$
- ✔ 2. $2125 \text{ m}^3$
- ✗ 3. $1750 \text{ m}^3$
- ✗ 4. $1960 \text{ m}^3$

Question Type : **MCQ**
Question ID : **387868693**
Option 1 ID : **3878682716**
Option 2 ID : **3878682714**
Option 3 ID : **3878682713**
Option 4 ID : **3878682715**
Status : **Answered**
Chosen Option : **2**

**Q.59** As per IS 800:2007, The maximum permissible vertical deflection for elements susceptible to cracking in buildings other than industrial buildings is limited to _____. Consider that type of member as floor and roof, and design load as live load.

Ans
- ✔ 1. $L/360$
- ✗ 2. $L/300$
- ✗ 3. $L/400$
- ✗ 4. $L/250$

Question Type : **MCQ**
Question ID : **387868669**
Option 1 ID : **3878682617**
Option 2 ID : **3878682618**
Option 3 ID : **3878682620**
Option 4 ID : **3878682619**
Status : **Answered**

**Q.60** Identify whether the given statements with respect to network planning technique used for project management are correct or incorrect.

**Statements:**

A) Event consumes only time not the resources.

B) An activity requires only resources for its completion, not time.

Ans ✗ 1. Statement B is correct and A is incorrect

✗ 2. Both statements are correct

✔ 3. Both statements are incorrect

✗ 4. Statement A is correct and B is incorrect

Question Type : **MCQ**
Question ID : **387868683**
Option 1 ID : **3878682674**
Option 2 ID : **3878682675**
Option 3 ID : **3878682676**
Option 4 ID : **3878682673**
Status : **Answered**
Chosen Option : **2**

**Q.61** Which of the following types of rocks is formed as a result of solidification of molten mass lying below or above the earth's surface?

Ans ✔ 1. Igneous rocks

✗ 2. Metamorphic rocks

✗ 3. Stratified rocks

✗ 4. Transported rocks

Question Type : **MCQ**
Question ID : **387868655**
Option 1 ID : **3878682561**
Option 2 ID : **3878682563**
Option 3 ID : **3878682564**
Option 4 ID : **3878682562**
Status : **Answered**
Chosen Option : **1**

**Q.62** Which type of bolt hole is more preferable to minimise the deformation of the work plate?

Ans ✗ 1. It depends on action of load

✔ 2. Drilled hole

✗ 3. Punched hole

✗ 4. It depends on bolt material

Question Type : **MCQ**
Question ID : **387868671**
Option 1 ID : **3878682627**
Option 2 ID : **3878682626**
Option 3 ID : 2625
Option 4 ID : 2628
Status : **Answered**

**Q.63** The piping phenomena in soil mass occurs when _____.

Ans
- ✗ 1. soil is dry
- ✔ 2. effective pressure in soil becomes zero
- ✗ 3. soil is dense
- ✗ 4. soil is impermeable

Question Type : **MCQ**
Question ID : **387868706**
Option 1 ID : **3878682765**
Option 2 ID : **3878682767**
Option 3 ID : **3878682768**
Option 4 ID : **3878682766**
Status : **Answered**
Chosen Option : **2**

**Q.64** As the pressure increases, the bulk modulus of a fluid:

Ans
- ✗ 1. becomes zero
- ✗ 2. decreases to a certain extent and then increase
- ✗ 3. decreases
- ✔ 4. increases

Question Type : **MCQ**
Question ID : **387868699**
Option 1 ID : **3878682740**
Option 2 ID : **3878682739**
Option 3 ID : **3878682738**
Option 4 ID : **3878682737**
Status : **Answered**
Chosen Option : **4**

**Q.65** A rectangular bar of length *2 m*, breadth 20 mm and depth 40 mm is subjected to an axial pull of force 400 N along its length. Calculate the tensile stress developed in the bar.

Ans
- ✗ 1. $5 \text{ N/mm}^2$
- ✗ 2. $10 \text{ N/mm}^2$
- ✔ 3. $0.5 \text{ N/mm}^2$
- ✗ 4. $1 \text{ N/mm}^2$

Question Type : **MCQ**
Question ID : **387868662**
Option 1 ID : **3878682591**
Option 2 ID : **3878682589**
Option 3 ID : **3878682590**
Option 4 ID : **3878682592**
Status : **Answered**
Chosen Option : **3**

**Q.66** The length of a road measured with a 30 metre chain was found to be 300 metres. What is the true length of the road if the chain was 10 cm too long?

Ans  ✔ 1. 301 metres

✘ 2. 303 metres

✘ 3. 295 metres

✘ 4. 290 metres

Question Type : **MCQ**
Question ID : **387868688**
Option 1 ID : **3878682695**
Option 2 ID : **3878682696**
Option 3 ID : **3878682694**
Option 4 ID : **3878682693**
Status : **Answered**
Chosen Option : **1**

**Q.67** Calculate the cost of brick work for a 30 cm thick compound wall of length 20 m and height 1.5 m, at the rate of ₹10,000 per $m^3$. Neglect the contingencies and work charged establishment charges.

Ans  ✘ 1. ₹30,000/-

✘ 2. ₹60,000/-

✔ 3. ₹90,000/-

✘ 4. ₹45,000/-

Question Type : **MCQ**
Question ID : **387868694**
Option 1 ID : **3878682717**
Option 2 ID : **3878682719**
Option 3 ID : **3878682718**
Option 4 ID : **3878682720**
Status : **Answered**
Chosen Option : **3**

**Q.68** The data pertaining to irrigation for an agricultural land is as follows:

1. field capacity of soil = 25%

2. optimum moisture = 15%

If the permanent wilting point = 11%, find the water holding capacity of soil above its wilting point.

Ans  ✘ 1. 4%

✘ 2. 10%

✔ 3. 14%

✘ 4. 29%

Question Type : **MCQ**
Question ID : **387868696**
Option 1 ID : **3878682726**
Option 2 ID : **3878682728**
Status : **Answered**

**Q.69** पिटॉट नळीचा वापर _____ मापण्यासाठी केला जातो.

Ans
- ✔ 1. पाईपमधील आवश्यक बिंदूवरील द्रवाचा वेग
- ✘ 2. द्रवाची वेग प्रवणता.
- ✘ 3. द्रवाची दाब प्रवणता
- ✘ 4. पाईपमधून वाहणाऱ्या द्रवाचा दर.

Question Type : **MCQ**
Question ID : **387868702**
Option 1 ID : **3878682749**
Option 2 ID : **3878682750**
Option 3 ID : **3878682752**
Option 4 ID : **3878682751**
Status : **Answered**
Chosen Option : **1**

---

**Q.70** In a steel structure, the ratio of plastic modulus to elastic modulus for a rectangular section is _____.

Ans
- ✘ 1. 2.5
- ✘ 2. 0.90
- ✘ 3. 0.5
- ✔ 4. 1.5

Question Type : **MCQ**
Question ID : **387868668**
Option 1 ID : **3878682616**
Option 2 ID : **3878682613**
Option 3 ID : **3878682614**
Option 4 ID : **3878682615**
Status : **Answered**
Chosen Option : **4**

---

**Q.71** Identify whether the given statements with respect to failure of a column or strut sections is correct or incorrect.

**Statements:**

A) The value of buckling load is low for short columns, when compared to long columns.

B) For a long column the value of buckling load will be less than the crushing load.

Ans
- ✘ 1. Statement A is correct and B is incorrect
- ✘ 2. Both statements are incorrect
- ✘ 3. Both statements are correct
- ✔ 4. Statement B is correct and A is incorrect

Question Type : **MCQ**
Question ID : **387868664**
Option 1 ID : **3878682597**
Option 2 ID : **3878682600**
Status : **Answered**

**Q.72** A string ABCD is subjected to two point loads as shown in the given figure. Calculate the tension force in segment CD.
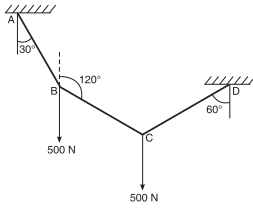


**Ans**
✔ 1. **500 N**

✘ 2. **424 N**

✘ 3. **340 N**

✘ 4. **250 N**

Question Type : **MCQ**
Question ID : **387868659**
Option 1 ID : **3878682578**
Option 2 ID : **3878682579**
Option 3 ID : **3878682577**
Option 4 ID : **3878682580**
Status : **Answered**
Chosen Option : **1**

**Q.73** The ratio of actual operating period of a distributary to the crop period is called _____.

**Ans**
✘ 1. supply coefficient

✘ 2. delta factor

✘ 3. nominal delta

✔ 4. time factor

Question Type : **MCQ**
Question ID : **387868697**
Option 1 ID : **3878682729**
Option 2 ID : **3878682731**
Option 3 ID : **3878682732**
Option 4 ID : **3878682730**
Status : **Answered**
Chosen Option : **2**

**Q.74** Identify the type of truss shown in the given figure based on degree of redundancy. Consider that truss is supported with roller type at joint E and hinged type at joint A.
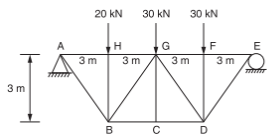


Ans ✗ 1. Deficient truss

✗ 2. Over rigid truss

✗ 3. Redundant truss

✔ 4. Perfect truss

Question Type : **MCQ**

Question ID : **387868665**

Option 1 ID : **3878682602**

Option 2 ID : **3878682604**

Option 3 ID : **3878682603**

Option 4 ID : **3878682601**

Status : **Answered**

Chosen Option : **3**

**Q.75** Which of the following types of curve is used to minimise discomfort arising due to sudden change in curvature at the junction of a straight and curved road?

Ans ✔ 1. Transition curve

✗ 2. Reverse curve

✗ 3. Simple curve

✗ 4. Compound curve

Question Type : **MCQ**

Question ID : **387868690**

Option 1 ID : **3878682701**

Option 2 ID : **3878682703**

Option 3 ID : **3878682704**

Option 4 ID : **3878682702**

Status : **Answered**

Chosen Option : **1**

**Q.76** Thickness of an isolated RCC footing at its edge shall not be less than _____.

Ans
- ✗ 1. 300 mm
- ✗ 2. 75 mm
- ✗ 3. 50 mm
- ✓ 4. 150 mm

Question Type : **MCQ**
Question ID : **387868677**
Option 1 ID : **3878682651**
Option 2 ID : **3878682650**
Option 3 ID : **3878682649**
Option 4 ID : **3878682652**
Status : **Answered**
Chosen Option : **2**

**Q.77** Which of the following tests is used to determine toughness of coarse aggregates?

Ans
- ✓ 1. Impact value test
- ✗ 2. Crushing value test
- ✗ 3. Los Angeles abrasion value test
- ✗ 4. Roughness value test

Question Type : **MCQ**
Question ID : **387868673**
Option 1 ID : **3878682636**
Option 2 ID : **3878682634**
Option 3 ID : **3878682635**
Option 4 ID : **3878682633**
Status : **Answered**
Chosen Option : **1**

**Q.78** The unit of intrinsic permeability in soil mass is:

Ans
- ✗ 1. mm/day
- ✗ 2. Km/day
- ✗ 3. mm
- ✓ 4. $mm^2$

Question Type : **MCQ**
Question ID : **387868703**
Option 1 ID : **3878682754**
Option 2 ID : **3878682753**
Option 3 ID : **3878682755**
Option 4 ID : **3878682756**
Status : **Answered**
Chosen Option : **4**

**Q.79** Which of the following expressions is correct to calculate extra widening ($W_e$) for roads at horizontal curves? (where

'n' is number of traffic lanes, '$l$' is length of wheel base of longest vehicle in m, 'V' is design speed of vehicle in km/h,

'R' is radius of horizontal curve in m.)

**Ans**

✗ 1. $W_e = \dfrac{nl^2}{R} + \dfrac{2V}{9.5\sqrt{R}}$

✓ 2. $W_e = \dfrac{nl^2}{2R} + \dfrac{V}{9.5\sqrt{R}}$

✗ 3. $W_e = \dfrac{nl^2}{2R} + \dfrac{V^2}{\sqrt{R}}$

✗ 4. $W_e = \dfrac{nl^2}{R} + \dfrac{V}{\sqrt{R}}$

Question Type : **MCQ**

Question ID : **387868710**

Option 1 ID : **3878682781**

Option 2 ID : **3878682783**

Option 3 ID : **3878682782**

Option 4 ID : **3878682784**

Status : **Answered**

Chosen Option : **2**

---

**Q.80** The cover thickness for longitudinal reinforcing bars in a beam subjected to severe condition should not be less than

_____.

**Ans**

✗ 1. 60 mm

✗ 2. 40 mm

✗ 3. 20 mm

✓ 4. 45 mm

Question Type : **MCQ**

Question ID : **387868676**

Option 1 ID : **3878682648**

Option 2 ID : **3878682646**

Option 3 ID : **3878682645**

Option 4 ID : **3878682647**

Status : **Answered**

Chosen Option : **3**

**Q.81** Which of the following types of surveying is NOT a traversing survey?

Ans
- ✗ 1. Compass surveying
- ✗ 2. Theodolite surveying
- ✗ 3. Chain surveying
- ✓ 4. Tacheometric surveying

Question Type : **MCQ**
Question ID : **387868687**
Option 1 ID : **3878682690**
Option 2 ID : **3878682691**
Option 3 ID : **3878682689**
Option 4 ID : **3878682692**
Status : **Answered**
Chosen Option : **3**

**Q.82** One poise is equal to _____.

Ans
- ✗ 1. $1/60$ N-sec/m$^2$
- ✓ 2. $1/10$ N-sec/m$^2$
- ✗ 3. $1/100$ N-sec/m$^2$
- ✗ 4. $1/50$ N-sec/m$^2$

Question Type : **MCQ**
Question ID : **387868700**
Option 1 ID : **3878682744**
Option 2 ID : **3878682743**
Option 3 ID : **3878682741**
Option 4 ID : **3878682742**
Status : **Answered**
Chosen Option : **2**

**Q.83** Addition of _____ in concrete will decrease the rate of hardening of cement in concrete.

Ans
- ✗ 1. accelerating admixtures
- ✓ 2. retarding admixtures
- ✗ 3. water proof admixtures
- ✗ 4. air entraining admixtures

Question Type : **MCQ**
Question ID : **387868674**
Option 1 ID : **3878682638**
Option 2 ID : **3878682639**
Option 3 ID : **3878682640**
Option 4 ID : **3878682637**
Status : **Answered**

**Q.84** Loss of pre-stress due to stress relaxation in steel depends on _____.

Ans
✗ 1. coefficient of friction between steel and concrete

✔ 2. initial prestress in steel

✗ 3. amount of shrinkage in concrete

✗ 4. amount of elongation in steel

Question Type : **MCQ**
Question ID : **387868680**
Option 1 ID : **3878682662**
Option 2 ID : **3878682661**
Option 3 ID : **3878682663**
Option 4 ID : **3878682664**
Status : **Answered**
Chosen Option : **1**

---

**Q.85** Calculate the deflection at point B of a cantilever beam of length 4 m shown in the given figure. Take EI as constant throughout its length.



Ans
✗ 1. $-\dfrac{26.67}{EI}$

✗ 2. $-\dfrac{120.45}{EI}$

✗ 3. $-\dfrac{70.50}{EI}$

✔ 4. $-\dfrac{53.33}{EI}$

Question Type : **MCQ**
Question ID : **387868666**
Option 1 ID : **3878682606**
Option 2 ID : **3878682608**
Option 3 ID : **3878682605**
Option 4 ID : **3878682607**
Status : **Answered**
Chosen Option : **2**

**Q.86** Which of the following chemical compositions (highest percentage) present in ordinary Portland cement is relatively in low percentage compared to other mentioned compositions?

Ans ✔ 1. $Na_2O$

✘ 2. $Al_2O_3$

✘ 3. $CaO$

✘ 4. $SiO_2$

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868656** |
| Option 1 ID : | **3878682568** |
| Option 2 ID : | **3878682567** |
| Option 3 ID : | **3878682565** |
| Option 4 ID : | **3878682566** |
| Status : | **Answered** |
| Chosen Option : | **4** |

**Q.87** Identify whether the given statements with respect to effect of force system are correct or incorrect.

**Statements:**

A) A coplanar concurrent force system acting on an object induces rotational effect on it.

B) A coplanar concurrent force system acting on an object induces both, translational and rotational effect on it.

Ans ✘ 1. Both statements are correct

✘ 2. Statement B is correct and A is incorrect

✘ 3. Statement A is correct and B is incorrect

✔ 4. Both statements are incorrect

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868658** |
| Option 1 ID : | **3878682575** |
| Option 2 ID : | **3878682574** |
| Option 3 ID : | **3878682573** |
| Option 4 ID : | **3878682576** |
| Status : | **Answered** |
| Chosen Option : | **1** |

**Q.88** The model analysis of free surface flows is based on _____.

Ans ✘ 1. Boltzmann number

✔ 2. Froude number

✘ 3. Bernoulli's number

✘ 4. Reynolds number

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868701** |
| Option 1 ID : | **3878682745** |
| Option 2 ID : | **3878682746** |
| Option 3 ID : | **3878682747** |
| Status : | **Answered** |

**Q.89** Which of the following equipment is more suitable for transportation of concrete over a long distance (like 10 to 15 kms)?

**Ans**

✔ 1. Transit mixer

✘ 2. Skip and hoist

✘ 3. Pumps and pipeline

✘ 4. Belt conveyor

Question Type : **MCQ**

Question ID : **387868675**

Option 1 ID : **3878682641**

Option 2 ID : **3878682642**

Option 3 ID : **3878682643**

Option 4 ID : **3878682644**

Status : **Answered**

Chosen Option : **1**

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**Q.90** The assumption that plane section remains plane, before and after the bending leads to _____.

**Ans**

✘ 1. uniform stress over the beam section

✘ 2. nonlinear variation of stress over the beam section

✔ 3. linear variation of stress over the beam section

✘ 4. uniform strain over the beam section

Question Type : **MCQ**

Question ID : **387868679**

Option 1 ID : **3878682657**

Option 2 ID : **3878682659**

Option 3 ID : **3878682660**

Option 4 ID : **3878682658**

Status : **Answered**

Chosen Option : **4**

---

**Q.91** Which of the following building materials is comparatively finer and possesses better adhesive and cohesive properties?

**Ans**

✘ 1. Fine aggregates

✘ 2. Silt

✔ 3. Clay

✘ 4. Manufactured sand

Question Type : **MCQ**

Question ID : **387868657**

Option 1 ID : **3878682569**

Option 2 ID : **3878682570**

Option 3 ID : **3878682571**

Option 4 ID : **3878682572**

Status : **Answered**

Chosen Option : **1**

**Q.92** Which of the following is NOT a secondary air pollutant?

Ans
- ✗ 1. Nitrogen oxide
- ✗ 2. Sulphuric acid
- ✔ 3. Sulphur dioxide
- ✗ 4. Ozone

Question Type : **MCQ**
Question ID : **387868713**
Option 1 ID : **3878682793**
Option 2 ID : **3878682794**
Option 3 ID : **3878682796**
Option 4 ID : **3878682795**
Status : **Answered**
Chosen Option : **1**

**Q.93** Pore water pressure in the capillary zone of a soil mass _____.

Ans
- ✗ 1. is zero (no rise, no fall)
- ✗ 2. can be either positive or negative
- ✗ 3. is positive (capillary water flows towards the direction of gravity)
- ✔ 4. is negative (capillary water rises against the gravity)

Question Type : **MCQ**
Question ID : **387868704**
Option 1 ID : **3878682757**
Option 2 ID : **3878682758**
Option 3 ID : **3878682759**
Option 4 ID : **3878682760**
Status : **Answered**
Chosen Option : **4**

**Q.94** Which of the following chemical compounds is NOT a Bogue's compound?

Ans
- ✔ 1. $2\ CaO.SiO_2.Fe_2O_3$
- ✗ 2. $4\ CaO.Al_2O_3.Fe_2O_3$
- ✗ 3. $3\ CaO.SiO_2$
- ✗ 4. $3\ Cao.Al_2O_3$

Question Type : **MCQ**
Question ID : **387868672**
Option 1 ID : **3878682629**
Option 2 ID : **3878682631**
Option 3 ID : **3878682630**
Option 4 ID : **3878682632**

**Q.95** Identify whether the given statements with respect to critical path analysis used for project management are correct or incorrect.

**Statements:**

A) Critical path analysis identifies the shortest path in a schedule network diagram.

B) Critical path analysis finds the minimum duration required to complete a project.

Ans
&#10007; 1. Both statements are incorrect

&#10007; 2. Both statements are correct

&#10007; 3. Statement A is correct and B is incorrect

&#10004; 4. Statement B is correct and A is incorrect

**Q.96** A triangular lamina with base width b=30 mm and height d=90 mm is shown in the given figure. The location of centroid measured with respect to its base b is at a distance of _____ mm.



Ans
&#10007; 1. 15.00

&#10007; 2. 45.00

&#10004; 3. 30.00

&#10007; 4. 60.00

**Q.97** Pre-stressing is possible by using _____.

Ans
✗ 1. tool steel
✗ 2. alloy steel
✓ 3. high tensile steel
✗ 4. HYSD

Question Type : **MCQ**
Question ID : **387868681**
Option 1 ID : **3878682665**
Option 2 ID : **3878682666**
Option 3 ID : **3878682667**
Option 4 ID : **3878682668**
Status : **Answered**
Chosen Option : **3**

**Q.98** As per IS 456, the batching tolerance for aggregates is _____.

Ans
✗ 1. ±7 %
✓ 2. ±3 %
✗ 3. ±10 %
✗ 4. ±15 %

Question Type : **MCQ**
Question ID : **387868678**
Option 1 ID : **3878682654**
Option 2 ID : **3878682655**
Option 3 ID : **3878682656**
Option 4 ID : **3878682653**
Status : **Answered**
Chosen Option : **4**

**Q.99** Identify whether the given statements are correct or incorrect.

**Statements:**

A) If the total float and duration of an activity are 2 and 10 days, respectively, the particular activity can be started 2 days later.

B) If the total float and duration of an activity are 2 and 10 days. respectively, the particular activity can be completed 2 days later.

Ans
✓ 1. Both statements are correct
✗ 2. Statement B is correct and A is incorrect
✗ 3. Both statements are incorrect
✗ 4. Statement A is correct and B is incorrect

Question Type : **MCQ**
Question ID : **387868684**
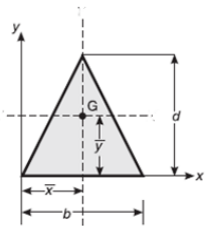Option 1 ID : **3878682679**
Option 2 ID : **3878682678**

Status : **Answered**

**Q.100** Which of the following beams/arches is statically determinate?

Ans
✔ 1. Three-hinged arches

✘ 2. Continuous beam

✘ 3. Propped cantilever beam

✘ 4. Two-hinged arches

Question Type : **MCQ**
Question ID : **387868667**
Option 1 ID : **3878682611**
Option 2 ID : **3878682609**
Option 3 ID : **3878682610**
Option 4 ID : **3878682612**
Status : **Answered**
Chosen Option : **4**

| Participant ID | 123 |
|---|---|
| Participant Name | xyz |
| Test Center Name | iON DIGITAL Zone iDZ Vishnupuri |
| Test Date | 12/08/2022 |
| Test Time | 12:30 PM - 2:00 PM |
| Subject | Cluster 1 |

Section : **English**

**Q.1** Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A. Her name was Mumtaz Mahal: its shortened form Taj Mahal, which means 'pride of the palace'.
B. The Taj Mahal is a love story, a sad but beautiful one.
C. His wife was a beautiful and bright woman whom he loved greatly.
D. Three hundred years ago, there lived an Indian emperor called Shah Jahan.

**Ans** ✔ 1. BDCA

✘ 2. DCBA

✘ 3. BADC

✘ 4. DACB

Question Type : **MCQ**
Question ID : **387868721**
Option 1 ID : **3878682828**
Option 2 ID : **3878682825**
Option 3 ID : **3878682827**
Option 4 ID : **3878682826**
Status : **Answered**
Chosen Option : **2**

**Q.2** **Select the most appropriate option to fill in the blank.**

I would _____ go hungry than eat any junk food.

**Ans** ✗ 1. fairly

✓ 2. rather

✗ 3. still

✗ 4. quite

Question Type : **MCQ**
Question ID : **387868715**
Option 1 ID : **3878682802**
Option 2 ID : **3878682803**
Option 3 ID : **3878682801**
Option 4 ID : **3878682804**
Status : **Answered**
Chosen Option : **2**

**Q.3** **Select the most appropriate meaning of the given idiom.**

Cat's paw

**Ans** ✓ 1. A person used as a tool by another

✗ 2. An unfaithful person

✗ 3. An ambitious person

✗ 4. A soft-hearted person

Question Type : **MCQ**
Question ID : **387868720**
Option 1 ID : **3878682822**
Option 2 ID : **3878682823**
Option 3 ID : **3878682824**
Option 4 ID : **3878682821**
Status : **Answered**
Chosen Option : **1**

**Q.4** **Select the most appropriate synonym of the given word.**

Stationary

**Ans** ✗ 1. Restless

✗ 2. Envelope

✗ 3. Patient

✓ 4. Motionless

Question Type : **MCQ**
Question ID : **387868719**
Option 1 ID : **3878682818**
Option 2 ID : **3878682820**
Option 3 ID : **3878682819**
Option 4 ID : **3878682817**
Status : **Answered**
Chosen Option : **4**

**Q.5** Select the most appropriate option to fill in the blank.

It is a quarter to eight _____ my watch.

**Ans** ✗ 1. on

✗ 2. at

✗ 3. in

✓ 4. by

Question Type : **MCQ**
Question ID : **387868716**
Option 1 ID : **3878682806**
Option 2 ID : **3878682808**
Option 3 ID : **3878682805**
Option 4 ID : **3878682807**
Status : **Answered**
Chosen Option : **1**

**Q.6** Select the most appropriate ANTONYM of the given word.

Cogent

**Ans** ✗ 1. Forceful

✓ 2. Ineffective

✗ 3. Relevant

✗ 4. Urgent

Question Type : **MCQ**
Question ID : **387868718**
Option 1 ID : **3878682813**
Option 2 ID : **3878682815**
Option 3 ID : **3878682814**
Option 4 ID : **3878682816**
Status : **Answered**
Chosen Option : **2**

**Q.7** Select the most appropriate option to fill in the blank.

If only he _____as he had been told!

**Ans** ✗ 1. was acting

✗ 2. would have acted

✓ 3. had acted

✗ 4. acted

Question Type : **MCQ**
Question ID : **387868717**
Option 1 ID : **3878682811**
Option 2 ID : **3878682812**
Option 3 ID : **3878682810**
Option 4 ID : **3878682809**
Status : **Answered**
Chosen Option : **4**

**Comprehension:**

Read the given passage and answer the questions that follow.

A Nobel Prize is considered by most people as one of the highest international honours a person can receive. The prizes were started by a Swede called Alfred Nobel. Alfred Nobel was born in Stockholm, the capital of Sweden, and lived from 1833 to 1896. Alfred Nobel was a chemist and inventor. He made two important inventions, and so he became very rich. However, Nobel was not a happy man. He never married or had children. Also, he was a sick man for a large part of his life. Nobel died at the age of sixty-three. When he died, he left a fund of $9,000,000. The money was to be used in giving prizes to those who made outstanding achievements in physics, chemistry, medicine, literature and the promotion of world peace.

The first Nobel Prizes were given on 10 December 1901, five years after Nobel's death. Each Prize has three parts. The first part is a gold medal. Second, the winner of a Nobel Prize is given a diploma saying that he/she has been given the Prize. The third part of the Prize is a large amount of money.

**SubQuestion No : 8**

**Q.8  After his death, Alfred Nobel left his money:**

**Ans**   ✗ 1. to the hospital where he received treatment

   ✗ 2. to his wife and children

   ✔ 3. to award Nobel Prizes to outstanding achievers

   ✗ 4. to the University of Stockholm

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868725** |
| Option 1 ID : | **3878682840** |
| Option 2 ID : | **3878682838** |
| Option 3 ID : | **3878682839** |
| Option 4 ID : | **3878682837** |
| Status : | **Answered** |
| Chosen Option : | **3** |

**Comprehension:**

Read the given passage and answer the questions that follow.

A Nobel Prize is considered by most people as one of the highest international honours a person can receive. The prizes were started by a Swede called Alfred Nobel. Alfred Nobel was born in Stockholm, the capital of Sweden, and lived from 1833 to 1896. Alfred Nobel was a chemist and inventor. He made two important inventions, and so he became very rich. However, Nobel was not a happy man. He never married or had children. Also, he was a sick man for a large part of his life. Nobel died at the age of sixty-three. When he died, he left a fund of $9,000,000. The money was to be used in giving prizes to those who made outstanding achievements in physics, chemistry, medicine, literature and the promotion of world peace.

The first Nobel Prizes were given on 10 December 1901, five years after Nobel's death. Each Prize has three parts. The first part is a gold medal. Second, the winner of a Nobel Prize is given a diploma saying that he/she has been given the Prize. The third part of the Prize is a large amount of money.

**SubQuestion No : 9**

**Q.9 A Nobel Prize comprises:**

Ans   ✗ 1. a medal and a diploma

     ✔ 2. a medal, diploma and money

     ✗ 3. a diploma and money

     ✗ 4. a medal and money

Question Type : **MCQ**
Question ID : **387868724**
Option 1 ID : **3878682833**
Option 2 ID : **3878682836**
Option 3 ID : **3878682834**
Option 4 ID : **3878682835**
Status : **Answered**
Chosen Option : **2**

**Comprehension:**

Read the given passage and answer the questions that follow.

A Nobel Prize is considered by most people as one of the highest international honours a person can receive. The prizes were started by a Swede called Alfred Nobel. Alfred Nobel was born in Stockholm, the capital of Sweden, and lived from 1833 to 1896. Alfred Nobel was a chemist and inventor. He made two important inventions, and so he became very rich. However, Nobel was not a happy man. He never married or had children. Also, he was a sick man for a large part of his life. Nobel died at the age of sixty-three. When he died, he left a fund of $9,000,000. The money was to be used in giving prizes to those who made outstanding achievements in physics, chemistry, medicine, literature and the promotion of world peace.

The first Nobel Prizes were given on 10 December 1901, five years after Nobel's death. Each Prize has three parts. The first part is a gold medal. Second, the winner of a Nobel Prize is given a diploma saying that he/she has been given the Prize. The third part of the Prize is a large amount of money.

**SubQuestion No : 10**

**Q.10 Alfred Nobel, who started the Nobel Prize, was:**

Ans   ✗ 1. a very rich and happy man

   ✗ 2. a selfish and proud man

   ✗ 3. a poor and unlucky man

   ✓ 4. a rich but unhealthy man

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|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868723** |
| Option 1 ID : | **3878682829** |
| Option 2 ID : | **3878682832** |
| Option 3 ID : | **3878682830** |
| Option 4 ID : | **3878682831** |
| Status : | **Answered** |
| Chosen Option : | **4** |

Section : **Marathi**

**Q.11 रांगते मूल आणि हसरा चेहरा नेहमीच आनन्द देतो. यातील विशेषणे ओळखा.**

Ans   ✓ 1. हसरा, रांगते

   ✗ 2. रांगते , चेहरा

   ✗ 3. नेहमीच, देतो

   ✗ 4. मूल, आनन्द

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|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868726** |
| Option 1 ID : | **3878682843** |
| Option 2 ID : | **3878682842** |
| Option 3 ID : | **3878682844** |
| Option 4 ID : | **3878682841** |
| Status : | **Answered** |
| Chosen Option : | **1** |

**Q.12** तू आंबे किंवा फणस काहीही आण. या वाक्यातील अव्यय शोधा.

**Ans** ✗ 1. तू

✓ 2. किंवा

✗ 3. आंबे

✗ 4. फणस

Question Type : **MCQ**

Question ID : **387868727**

Option 1 ID : **3878682848**

Option 2 ID : **3878682847**

Option 3 ID : **3878682845**

Option 4 ID : **3878682846**

Status : **Answered**

Chosen Option : **2**

**Q.13** 'पराचा कावळा करणे' या वाक्प्रचाराचा अर्थ शोधा.

**Ans** ✗ 1. भानगड करणे

✗ 2. नाश करणे

✓ 3. साधी गोष्ट फुगवून सांगणे

✗ 4. वरचढ होणे

Question Type : **MCQ**

Question ID : **387868731**

Option 1 ID : **3878682862**

Option 2 ID : **3878682861**

Option 3 ID : **3878682863**

Option 4 ID : **3878682864**

Status : **Answered**

Chosen Option : **3**

**Q.14** "घाऊक" शब्दाचा विरुद्धार्थी शब्द शोधा.

**Ans** ✗ 1. सौम्य

✗ 2. विक्री

✓ 3. किरकोळ

✗ 4. कायदेशीर

Question Type : **MCQ**

Question ID : **387868729**

Option 1 ID : **3878682856**

Option 2 ID : **3878682855**

Option 3 ID : **3878682853**

Option 4 ID : **3878682854**

Status : **Answered**

Chosen Option : **3**

**Q.15** अचूक वाक्यरचना सांगा.

**Ans**  ✗ 1. गणपती त्यांच्या शाळकरी वयातच माझे बाबा करायला शिकले होते.

✗ 2. त्यांच्या शाळकरी वयातच होते माझे बाबा गणपती शिकले करायला.

✔ 3. माझे बाबा त्यांच्या शाळकरी वयातच गणपती करायला शिकले होते.

✗ 4. गणपती करायला शाळकरी वयातच माझे बाबा त्यांच्या शिकले होते.

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|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868732** |
| Option 1 ID : | **3878682867** |
| Option 2 ID : | **3878682866** |
| Option 3 ID : | **3878682868** |
| Option 4 ID : | **3878682865** |
| Status : | **Answered** |
| Chosen Option : | **3** |

**Q.16** 'विख्यात' या शब्दाचा समानार्थी शब्द कोणता?

**Ans**  ✔ 1. नामांकित

✗ 2. निपुण

✗ 3. विकल्प

✗ 4. व्यवस्थित

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868730** |
| Option 1 ID : | **3878682860** |
| Option 2 ID : | **3878682858** |
| Option 3 ID : | **3878682859** |
| Option 4 ID : | **3878682857** |
| Status : | **Answered** |
| Chosen Option : | **1** |

**Q.17** 'मी काल यावेळी वाचत होतो'. या वाक्यातील काळ ओळखा.

**Ans**  ✔ 1. अपूर्ण भूतकाळ

✗ 2. अपूर्ण वर्तमानकाळ

✗ 3. पूर्ण वर्तमान काळ

✗ 4. पूर्ण भूतकाळ

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868728** |
| Option 1 ID : | **3878682850** |
| Option 2 ID : | **3878682849** |
| Option 3 ID : | **3878682851** |
| Option 4 ID : | **3878682852** |
| Status : | **Answered** |
| Chosen Option : | **1** |

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या

लंडनमध्ये सप्टेंबर, ऑक्टोबरनंतर जवळजवळ रोज पाऊस पडायचा, आणि माझ्या ओळखीचे सर्व लंडनवासी पावसाला शिव्या देत असायचे. मला त्या पावसाची मोठी मौज वाटे. वाटेत चिखल नाही, मजेदार गारवा आणि 4,5 मैल चालूनही थकवा नाही. घरून वर्तमानपत्रे यायची,त्यात महाराष्ट्रातल्या दुष्काळाची वर्णने,नगरच्या लोकांची न संपणारी पाण्याची कटकट ! —कोणी म्हणाले की तुम्ही कशा पावसाला कंटाळत नाही? मी उत्तर देई की ,जगात कोठेतरी असा पाऊस पडतो व कायम हिरवेगार राहते याचे मला फार कौतुक वाटते.

नुसता पाऊसच नाही,तर लंडनची सर्वच सृष्टी इकडच्या उलटी. आपल्याकडे धुके म्हटले की काही तरी मजेदार संवेदना मनाला होते. पावसाने धुवून काढलेले प्रसन्न आकाश ,सकाळची व संध्याकाळची पडू लागलेली थंडी,दहा मैल लांबचे दिसावे असे स्वच्छ वातावरण, आणि त्यात थोडा वेळ मात्र राहणारा, दृष्टीला चकवणारा धुक्याचा पडदा...... असे आपल्याकडचे धुके. सकाळी उठून पहावे तर महाबळेश्वरी किंवा सिंहगडावर खालील दरी धुक्याने भरलेली असते--
तेवढ्यात सूर्य उगवावा ,की त्या धुक्यावर इंद्रधनुष्ये उमटतात आणि थोडावेळ इतस्ततः पळून ,सूर्य वर आला की धुके पार नाहीसे होऊन गवताच्या पातीपातींवर अनंत दवबिंदू कोटिसूर्य प्रतिबिंबित करतात.

लंडनचे धुके काही औरच असते .वर्षाचे 10 दिवस सुद्धा आकाश निरभ्र नसते.

**SubQuestion No : 18**

**Q.18 लंडनला असताना लेखिकेच्या घरच्या वर्तमानपत्रामध्ये कोणती बातमी यायची ?**

Ans ✅ 1. महाराष्ट्रातल्या दुष्काळाची

❌ 2. गवताच्या पातींची

❌ 3. लंडनच्या पावसाची

❌ 4. सिंहगडावरील धुक्याची

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868736** |
| Option 1 ID : | **3878682880** |
| Option 2 ID : | **3878682879** |
| Option 3 ID : | **3878682878** |
| Option 4 ID : | **3878682877** |
| Status : | **Answered** |
| Chosen Option : | **1** |

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या

लंडनमध्ये सप्टेंबर, ऑक्टोबरनंतर जवळजवळ रोज पाऊस पडायचा, आणि माझ्या ओळखीचे सर्व लंडनवासी पावसाला शिव्या देत असायचे. मला त्या पावसाची मोठी मौज वाटे. वाटेत चिखल नाही, मजेदार गारवा आणि 4,5 मैल चालूनही थकवा नाही. घरून वर्तमानपत्रे यायची,त्यात महाराष्ट्रातल्या दुष्काळाची वर्णने,नगरच्या लोकांची न संपणारी पाण्याची कटकट ! —कोणी म्हणाले की तुम्ही कशा पावसाला कंटाळत नाही? मी उत्तर देई की ,जगात कोठेतरी असा पाऊस पडतो व कायम हिरवेगार राहते याचे मला फार कौतुक वाटते.

नुसता पाऊसच नाही,तर लंडनची सर्वच सृष्टी इकडच्या उलटी. आपल्याकडे धुके म्हटले की काही तरी मजेदार संवेदना मनाला होते. पावसाने धुवून काढलेले प्रसन्न आकाश ,सकाळची व संध्याकाळची पडू लागलेली थंडी,दहा मैल लांबचे दिसावे असे स्वच्छ वातावरण, आणि त्यात थोडा वेळ मात्र राहणारा, दृष्टीला चकवणारा धुक्याचा पडदा...... असे आपल्याकडचे धुके. सकाळी उठून पहावे तर महाबळेश्वरी किंवा सिंहगडावर खालील दरी धुक्याने भरलेली असते—
तेवढ्यात सूर्य उगवावा ,की त्या धुक्यावर इंद्रधनुष्ये उमटतात आणि थोडावेळ इतस्ततः पळून ,सूर्य वर आला की धुके पार नाहीसे होऊन गवताच्या पातीपातींवर अनंत दवबिंदू कोटिसूर्य प्रतिबिंबित करतात.

लंडनचे धुके काही औरच असते .वर्षाचे 10 दिवस सुद्धा आकाश निरभ्र नसते.

**SubQuestion No : 19**

**Q.19** महाराष्ट्रात कोणत्या ठिकाणी धुके असते?

**Ans** ✗ 1. लंडन,सिंहगड

✗ 2. नगर,लंडन

✓ 3. महाबळेश्वर, सिंहगड

✗ 4. नगर,पुणे

Question Type : **MCQ**
Question ID : **387868735**
Option 1 ID : **3878682875**
Option 2 ID : **3878682876**
Option 3 ID : **3878682874**
Option 4 ID : **3878682873**
Status : **Answered**
Chosen Option : **3**

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या

लंडनमध्ये सप्टेंबर, ऑक्टोबरनंतर जवळजवळ रोज पाऊस पडायचा, आणि माझ्या ओळखीचे सर्व लंडनवासी पावसाला शिव्या देत असायचे. मला त्या पावसाची मोठी मौज वाटे. वाटेत चिखल नाही, मजेदार गारवा आणि 4,5 मैल चालूनही थकवा नाही. घरून वर्तमानपत्रे यायची,त्यात महाराष्ट्रातल्या दुष्काळाची वर्णने,नगरच्या लोकांची न संपणारी पाण्याची कटकट ! —कोणी म्हणाले की तुम्ही कशा पावसाला कंटाळत नाही? मी उत्तर देई की ,जगात कोठेतरी असा पाऊस पडतो व कायम हिरवेगार राहते याचे मला फार कौतुक वाटते.

नुसता पाऊसच नाही,तर लंडनची सर्वच सृष्टी इकडच्या उलटी. आपल्याकडे धुके म्हटले की काही तरी मजेदार संवेदना मनाला होते. पावसाने धुवून काढलेले प्रसन्न आकाश ,सकाळची व संध्याकाळची पडू लागलेली थंडी,दहा मैल लांबचे दिसावे असे स्वच्छ वातावरण, आणि त्यात थोडा वेळ मात्र राहणारा, दृष्टीला चकवणारा धुक्याचा पडदा...... असे आपल्याकडचे धुके. सकाळी उठून पहावे तर महाबळेश्वरी किंवा सिंहगडावर खालील दरी धुक्याने भरलेली असते—
तेवढ्यात सूर्य उगवावा ,की त्या धुक्यावर इंद्रधनुष्ये उमटतात आणि थोडावेळ इतस्ततः पळून ,सूर्य वर आला की धुके पार नाहीसे होऊन गवताच्या पातीपातींवर अनंत दवबिंदू कोटिसूर्य प्रतिबिंबित करतात.

लंडनचे धुके काही औरच असते .वर्षाचे 10 दिवस सुद्धा आकाश निरभ्र नसते.

**SubQuestion No : 20**

**Q.20** 'निरभ्र' चा अर्थ काय ?

Ans   ✗ 1. प्रसन्न

     ✔ 2. ढग नसणारे

     ✗ 3. गारवा

     ✗ 4. ढगाळ

> Question Type : **MCQ**
> Question ID : **387868734**
> Option 1 ID : **3878682870**
> Option 2 ID : **3878682871**
> Option 3 ID : **3878682872**
> Option 4 ID : **3878682869**
> Status : **Answered**
> Chosen Option : **2**

Section : **General Knowledge**

**Q.21** According to the Census 2011 which of the following districts has the minimum population density?

Ans   ✗ 1. Gadchiroli

     ✔ 2. Sindhudarg

     ✗ 3. Hingoli

     ✗ 4. Washim

> Question Type : **MCQ**
> Question ID : **387868746**
> Option 1 ID : **3878682919**
> Option 2 ID : **3878682918**
> Option 3 ID : **3878682920**
> Option 4 ID : **3878682917**
> Status : **Answered**
> Chosen Option : **1**

**Q.22** Where does NATO conduct naval exercises with NATO allies and partners in June 2022?

Ans  ✗ 1. Philippine Sea

✗ 2. South China Sea

✗ 3. Sargasso Sea

✓ 4. Baltic Sea

Question Type : **MCQ**

Question ID : **387868737**

Option 1 ID : **3878682882**

Option 2 ID : **3878682881**

Option 3 ID : **3878682883**

Option 4 ID : **3878682884**

Status : **Answered**

Chosen Option : **2**

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**Q.23** भारताच्या राज्यघटनेनुसार, राज्य कार्यकारिणीचे विधितः अध्यक्ष कोण असतात?

Ans  ✗ 1. राज्याच्या उच्च न्यायलयाचे मुख्य न्यायमूर्ती

✗ 2. राज्याचे मुख्य सचिव

✓ 3. राज्याचे राज्यपाल

✗ 4. राज्याचे मुख्यमंत्री

Question Type : **MCQ**

Question ID : **387868743**

Option 1 ID : **3878682907**

Option 2 ID : **3878682908**

Option 3 ID : **3878682905**

Option 4 ID : **3878682906**

Status : **Answered**

Chosen Option : **3**

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**Q.24** ₹5 कोटी (ईशान्य क्षेत्रासाठी ₹2 कोटी) निधीच्या किमान निव्वळ मालकीसह नॉन-डिपॉझिट घेणारी आणि अर्हता मालमत्तेच्या स्वरूपात आपल्या मालमत्तेच्या किमान _____ असणारी NBFC अशी NBFC-MFI ची व्याख्या केली जाते..

Ans  ✗ 1. 55%

✗ 2. 75%

✗ 3. 65%

✓ 4. 85%

Question Type : **MCQ**

Question ID : **387868741**

Option 1 ID : **3878682897**

Option 2 ID : **3878682899**

Option 3 ID : **3878682898**

Option 4 ID : **3878682900**

Status : **Answered**

Chosen Option : **3**

**Q.25** महाराष्ट्रातील नाशिक जिल्ह्यात पुढीलपैकी कोणते शिखर आहे?

Ans  ✗ 1. तोरणा

✗ 2. पुरंदर

✗ 3. सिंहगड

✓ 4. धोडप

Question Type : **MCQ**
Question ID : **387868745**
Option 1 ID : **3878682914**
Option 2 ID : **3878682915**
Option 3 ID : **3878682916**
Option 4 ID : **3878682913**
Status : **Answered**
Chosen Option : **1**

**Q.26** How many Indian cities are included in the list of the most polluted hundred cities in the world according to the world air quality report 2021?

Ans  ✓ 1. 63

✗ 2. 45

✗ 3. 59

✗ 4. 47

Question Type : **MCQ**
Question ID : **387868738**
Option 1 ID : **3878682885**
Option 2 ID : **3878682888**
Option 3 ID : **3878682886**
Option 4 ID : **3878682887**
Status : **Answered**
Chosen Option : **4**

**Q.27** Through which of the following districts river Godavari does NOT flow?

Ans  ✗ 1. Ahmednagar

✓ 2. Satara

✗ 3. Nanded

✗ 4. Nashik

Question Type : **MCQ**
Question ID : **387868744**
Option 1 ID : **3878682911**
Option 2 ID : **3878682912**
Option 3 ID : **3878682910**
Option 4 ID : **3878682909**
Status : **Answered**
Chosen Option : **2**

**Q.28** बँक प्रणालीच्या संदर्भात पुढीलपैकी कोणते विधान अयोग्य आहे?

**Ans**

✅ 1. आरबीआय ज्या दराने व्यापारी बँकांना कर्ज देते त्याला रिव्हर्स रेपो दर म्हणतात.

❌ 2. बँकेने बँकेकडे रोख राखीव म्हणून ठेवलेल्या ठेवींच्या टक्केवारीला रोख राखीव प्रमाण म्हणतात (Cash Reserve Ratio).

❌ 3. सांविधिक तरलता प्रमाण (Statutory Liquidity Ratio) म्हणजे व्यापारी बँकेला रोख रक्कम, सोने किंवा इतर रोखींच्या रूपात ठेवींच्या किमान टक्केवारीचा संदर्भ दिला जातो.

❌ 4. व्यापारी बँकेला कर्ज देताना मध्यवर्ती बँकेकडून आकारला जाणारा व्याज दर म्हणजे बँक दर.

Question Type : **MCQ**
Question ID : **387868740**
Option 1 ID : **3878682895**
Option 2 ID : **3878682893**
Option 3 ID : **3878682894**
Option 4 ID : **3878682896**
Status : **Answered**
Chosen Option : **4**

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**Q.29** In March 2022, Mumbai announced its detailed framework to 'zero out carbon emissions by_____' and became the first city in South Asia to set such a target.

**Ans**

❌ 1. 2035

❌ 2. 2045

❌ 3. 2040

✅ 4. 2050

Question Type : **MCQ**
Question ID : **387868739**
Option 1 ID : **3878682891**
Option 2 ID : **3878682889**
Option 3 ID : **3878682890**
Option 4 ID : **3878682892**
Status : **Answered**
Chosen Option : **4**

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**Q.30** भारतीय राज्यघटनेच्या _____ मधील नियमांनुसार महाराष्ट्र वित्त आयोगाची स्थापना करण्यात आली आहे.

**Ans**

❌ 1. अनुच्छेद 243 (P)

❌ 2. अनुच्छेद 243 (ZA)

✅ 3. अनुच्छेद 243 (I)

❌ 4. अनुच्छेद 243 (K)

Question Type : **MCQ**
Question ID : **387868742**
Option 1 ID : **3878682904**
Option 2 ID : **3878682903**
Option 3 ID : **3878682901**
Option 4 ID : **3878682902**
Status : **Answered**
Chosen Option : **1**

Section : **Logical Ability**

**Q.31** Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:
Some cats are dogs.
Some dogs are rats.

Conclusions:
I. Some dogs are cats.
II. Some rats are cats.
III. Some rats are dogs.

**Ans** ✗ 1. Both conclusions I and II follow.

✔ 2. Both conclusions I and III follow.

✗ 3. All conclusions I, II and III follow.

✗ 4. Both conclusions II and III follow.

Question Type : **MCQ**
Question ID : **387868749**
Option 1 ID : **3878682930**
Option 2 ID : **3878682929**
Option 3 ID : **3878682932**
Option 4 ID : **3878682931**
Status : **Answered**
Chosen Option : **2**

**Q.32** Eight friends are sitting around a squared table. They all are facing the centre of the table. Four people are sitting on the four corners while the other four are sitting in the middle of the four sides. Raghav is sitting to the immediate right of Bheem who is sitting between Neena and Raghav. Chunmun is sitting in second place to the left of Bheem. Dhruv is immediate left of Veer who is sitting in second place to the right of Raghav. Chunmun is sitting opposite Dhruv. Neena is neither sitting at the right place of Raman nor at the front of Koli. Raman is sitting diagonally in front of Raghav. Who is seating opposite Bheem?

**Ans** ✗ 1. Neena

✔ 2. Koli

✗ 3. Veer

✗ 4. Dhruv

Question Type : **MCQ**
Question ID : **387868747**
Option 1 ID : **3878682921**
Option 2 ID : **3878682924**
Option 3 ID : **3878682922**
Option 4 ID : **3878682923**
Status : **Answered**
Chosen Option : **2**

**Q.33** A team consisting of six members has to be formed by choosing members from six females L, M, N, O, P and Q and six male players U, V, W, X, Y and Z.

The team must be meeting the following criteria.

1. There must be at least three male players in the team.
2. If player M is chosen then player W must also be chosen.
3. If player Q and/or player X are taken into the team, player N and/or player O cannot be selected and vice-versa.
4. Player P and player Y have to be chosen together.
5. Player O and player W cannot come together in the team.
6. Player L can be selected only if player X is also selected and vice-versa.

Which of the following teams can be formed?

**Ans**  ✗ 1. ONWPVY

 ✓ 2. YLWXMP

 ✗ 3. MPLXQW

 ✗ 4. QUWMOV

Question Type : **MCQ**

Question ID : **387868753**

Option 1 ID : **3878682948**

Option 2 ID : **3878682947**

Option 3 ID : **3878682946**

Option 4 ID : **3878682945**

Status : **Answered**

Chosen Option : **2**

**Q.34** In a certain code language, 'KITTY' is coded as 80 and 'EILLY' is coded as 58. How will 'JELLY' be coded in the same language?

**Ans**  ✗ 1. 57

 ✗ 2. 64

 ✓ 3. 59

 ✗ 4. 63

Question Type : **MCQ**

Question ID : **387868754**

Option 1 ID : **3878682952**

Option 2 ID : **3878682950**

Option 3 ID : **3878682949**

Option 4 ID : **3878682951**

Status : **Answered**

Chosen Option : **3**

**Q.35** Select the letter and number from the given options that when sequentially placed in the blanks of the given series will complete the series.

A, B, 5, E, C, 7, _ , A, 11, D, _ , B, Y, 25, Z, C, 35, A, X, 47

**Ans** ✗ 1. Z and 15

✗ 2. Y and 15

✓ 3. Z and 17

✗ 4. B and 17

Question Type : **MCQ**

Question ID : **387868751**

Option 1 ID : **3878682940**

Option 2 ID : **3878682937**

Option 3 ID : **3878682939**

Option 4 ID : **3878682938**

Status : **Answered**

Chosen Option : **1**

**Q.36** Select the figure that will come next in the following series.



**Ans**

✗ 1. 

✗ 2. 

✔ 3. 

✗ 4. 

Question Type : **MCQ**

Question ID : **387868756**

Option 1 ID : **3878682960**

Option 2 ID : **3878682959**

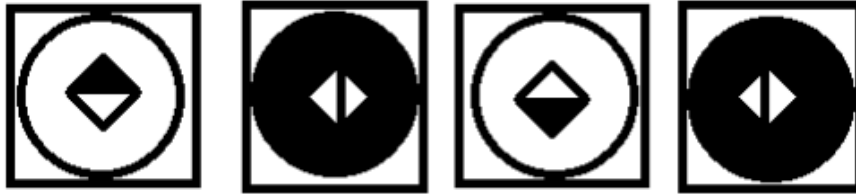Option 3 ID : **3878682958**

Option 4 ID : **3878682957**

Status : **Answered**

Chosen Option : **3**

**Q.37** यामिनीने शैलेशची ओळख करून देताना असे म्हटले की, तो तिच्या एकुलत्या एका भावाच्या आईचा जावई आहे. तर शैलेशचे यामिनीशी काय नाते असेल?

Ans ✅ 1. पती

✗ 2. अंकल

✗ 3. भाऊ

✗ 4. मुलगा

Question Type : **MCQ**
Question ID : **387868755**
Option 1 ID : **3878682953**
Option 2 ID : **3878682955**
Option 3 ID : **3878682954**
Option 4 ID : **3878682956**
Status : **Answered**
Chosen Option : **1**

**Q.38** दिलेल्या मालिकेचा पहिला अर्धा भाग हा उलट क्रमाने लिहिला आणि त्यानंतर नवीन तयार झालेल्या मालिकेतील सर्व अक्षरे काढून टाकली, तर कोणती संख्या/चिन्ह मालिकेच्या मध्यभागी येईल?

A, S, 4, 6, % , G, T, Y, 5, &, *, @, !, H, T, 5, 7, F, 3, W, 9, N, 4, G, &, T, 6, $, H, %

Ans ✅ 1. 5

✗ 2. %

✗ 3. 7

✗ 4. 4

Question Type : **MCQ**
Question ID : **387868752**
Option 1 ID : **3878682942**
Option 2 ID : **3878682943**
Option 3 ID : **3878682944**
Option 4 ID : **3878682941**
Status : **Answered**
Chosen Option : **1**

**Q.39** एका परीक्षेत मदनला प्रदिपपेक्षा कमी गुण मिळाले नाहीत. प्रदिपला हिरापेक्षा कमी गुण मिळाले. विराटला मदनएवढेच गुण मिळालेल्या तरूणपेक्षा जास्त गुण मिळाले आहेत. वर दिलेल्या माहितीच्या आधारे खालीलपैकी कोणता निष्कर्ष योग्य आहे?

Ans ✗ 1. मदन = विराट

✗ 2. तरूण ≥ हिरा

✗ 3. हिरा > मदन

✅ 4. प्रदिप < विराट

Question Type : **MCQ**
Question ID : **387868750**
Option 1 ID : **3878682934**
Option 2 ID : **3878682935**
Option 3 ID : **3878682936**
Option 4 ID : **3878682933**
Status : **Answered**
Chosen Option : **3**

**Q.40** If 13th February 2018 was Tuesday, what will be the day of the week on 13th February 2035?

**Ans**
✗ 1. Thursday

✗ 2. Friday

✔ 3. Tuesday

✗ 4. Monday

Question Type : **MCQ**
Question ID : **387868748**
Option 1 ID : **3878682927**
Option 2 ID : **3878682928**
Option 3 ID : **3878682925**
Option 4 ID : **3878682926**
Status : **Answered**
Chosen Option : **3**

Section : **Civil Engineering**

**Q.41** Which of the below-mentioned statements with respect to network planning techniques used for project management is/are correct?

**Statement A:** An event consumes neither time nor resources.

**Statement B:** An activity requires both time and resources for its completion.

**Ans**
✗ 1. Statement A is correct and Statement B is incorrect.

✗ 2. Statement B is correct and Statement A is incorrect.

✗ 3. Both the statements are incorrect.

✔ 4. Both the statements are correct.

Question Type : **MCQ**
Question ID : **387868785**
Option 1 ID : **3878683073**
Option 2 ID : **3878683074**
Option 3 ID : **3878683076**
Option 4 ID : **3878683075**
Status : **Answered**
Chosen Option : **4**

**Q.42** In fluids, potential flow is also known as:

**Ans**
✗ 1. uniform flow

✔ 2. irrotational flow

✗ 3. unsteady flow

✗ 4. steady flow

Question Type : **MCQ**
Question ID : **387868803**
Option 1 ID : **3878683145**
Option 2 ID : **3878683147**
Option 3 ID : **3878683148**
Status : **Answered**

**Q.43** A load of magnitude 100 kN crosses a simply supported beam of span 10 m. Calculate the maximum positive and negative shear force, respectively, at a section 4 m from the left end support.

**Ans**

✗ 1. 25 kN; 75 kN

✔ 2. 60 kN; 40 kN

✗ 3. 70 kN; 30 kN

✗ 4. 30 kN; 70 kN

Question Type : **MCQ**
Question ID : **387868769**
Option 1 ID : **3878683010**
Option 2 ID : **3878683011**
Option 3 ID : **3878683009**
Option 4 ID : **3878683012**
Status : **Answered**
Chosen Option : **4**

**Q.44** In which type of canal outlets is the discharge constant and fixed within limits, irrespective of fluctuations in water levels of either the distributary or the water course?

**Ans**

✗ 1. Semi-modular outlets

✗ 2. Flexible outlets

✔ 3. Modular outlets

✗ 4. Non-modular outlets

Question Type : **MCQ**
Question ID : **387868799**
Option 1 ID : **3878683130**
Option 2 ID : **3878683131**
Option 3 ID : **3878683132**
Option 4 ID : **3878683129**
Status : **Answered**
Chosen Option : **3**

**Q.45** _____ is the unit of measurement used for estimating the quantity of earth filling in plinth.

**Ans**

✔ 1. Cubic metres

✗ 2. Running metre

✗ 3. Tonne

✗ 4. Square metres

Question Type : **MCQ**
Question ID : **387868793**
Option 1 ID : **3878683108**
Option 2 ID : **3878683105**
Option 3 ID : **3878683107**
Option 4 ID : **3878683106**
Status : **Answered**
Chosen Option : **1**

**Q.46** According to IS 456-2000, the maximum area of compression reinforcement in rectangular beams shall NOT exceed _____.

**Ans**
✗ 1. 6% of the total cross-sectional area

✗ 2. 1% of the total cross-sectional area

✔ 3. 4% of the total cross-sectional area

✗ 4. 8% of the total cross-sectional area

Question Type : **MCQ**

Question ID : **387868777**

Option 1 ID : **3878683043**

Option 2 ID : **3878683041**

Option 3 ID : **3878683042**

Option 4 ID : **3878683044**

Status : **Answered**

Chosen Option : **3**

**Q.47** If the latitude and departure of a survey line are negative, the whole circle bearing of the same line will be between _____.

**Ans**
✔ 1. 180° and 270°

✗ 2. 270° and 360°

✗ 3. 90° and 180°

✗ 4. 0° and 90°

Question Type : **MCQ**

Question ID : **387868790**

Option 1 ID : **3878683095**

Option 2 ID : **3878683096**

Option 3 ID : **3878683094**

Option 4 ID : **3878683093**

Status : **Answered**

Chosen Option : **1**

**Q.48** Which of the following structural elements is classified as an indeterminate structure?

**Ans**
✗ 1. Simply supported beam

✗ 2. Three hinged arch

✗ 3. Cantilever beam

✔ 4. Continuous beam

Question Type : **MCQ**

Question ID : **387868791**

Option 1 ID : **3878683100**

Option 2 ID : **3878683099**

Option 3 ID : **3878683097**

Option 4 ID : **3878683098**

Status : **Answered**

Chosen Option : **4**

**Q.49** The coefficient of permeability and coefficient of percolation of a soil are 1 x 10⁻³ cm/s and

2 x 10⁻³ cm/s, respectively. What will be the void ratio of the soil sample?

**Ans**
- ✗ 1. $0.4$
- ✗ 2. $0.5$
- ✗ 3. $2.5$
- ✓ 4. $1$

Question Type : **MCQ**
Question ID : **387868806**
Option 1 ID : **3878683160**
Option 2 ID : **3878683159**
Option 3 ID : **3878683158**
Option 4 ID : **3878683157**
Status : **Answered**
Chosen Option : **4**

**Q.50** The total residual shrinkage strain due to shrinkage of concrete in a pre-tensioned member is _____.

**Ans**
- ✗ 1. $6.5 \times 10^{-4}$
- ✗ 2. $4.5 \times 10^{-4}$
- ✓ 3. $3 \times 10^{-4}$
- ✗ 4. $5.5 \times 10^{-4}$

Question Type : **MCQ**
Question ID : **387868781**
Option 1 ID : **3878683060**
Option 2 ID : **3878683058**
Option 3 ID : **3878683057**
Option 4 ID : **3878683059**
Status : **Answered**
Chosen Option : **3**

**Q.51** Which of the following survey types follows operations such as radiation, intersection, traversing and resection?

**Ans**
- ✗ 1. Chain surveying
- ✗ 2. Compass surveying
- ✓ 3. Plane table surveying
- ✗ 4. Tacheometric surveying

Question Type : **MCQ**
Question ID : **387868789**
Option 1 ID : **3878683089**
Option 2 ID : **3878683090**
Option 3 ID : **3878683091**
Option 4 ID : **3878683092**
Status : **Answered**

**Q.52** The unit of coefficient of permeability is usually expressed in:

Ans
- ✗ 1. $kN/cm^2$
- ✗ 2. $mm^2/s$
- ✗ 3. $m^2/kN$
- ✓ 4. m/day

Question Type : **MCQ**
Question ID : **387868805**
Option 1 ID : **3878683154**
Option 2 ID : **3878683155**
Option 3 ID : **3878683156**
Option 4 ID : **3878683153**
Status : **Answered**
Chosen Option : **4**

**Q.53** The instruments such as Venturi meter, current meter and piezometer measure _____, respectively.

Ans
- ✗ 1. flow pressure, flow rate and flow velocity
- ✓ 2. flow rate, flow velocity and flow pressure
- ✗ 3. flow pressure, flow velocity and flow rate
- ✗ 4. flow velocity, flow rate and flow pressure

Question Type : **MCQ**
Question ID : **387868804**
Option 1 ID : **3878683151**
Option 2 ID : **3878683149**
Option 3 ID : **3878683150**
Option 4 ID : **3878683152**
Status : **Answered**
Chosen Option : **2**

**Q.54** According to the PIEV theory, the time required for the driver to understand the situation, compare different thoughts, re-group and register new sensations during driving a vehicle on road is called _____.

Ans
- ✗ 1. volition time
- ✗ 2. emotion time
- ✓ 3. intellection time
- ✗ 4. perception time

Question Type : **MCQ**
Question ID : **387868809**
Option 1 ID : **3878683172**
Option 2 ID : **3878683171**
Option 3 ID : **3878683170**
Option 4 ID : **3878683169**
Status : **Answered**
Chosen Option : **3**

**Q.55** A good brick-earth should contain about _____ of silica.

Ans
✗ 1. 1% to 5%
✗ 2. 90% to 94%
✗ 3. 20% to 25%
✔ 4. 50% to 60%

Question Type : **MCQ**
Question ID : **387868758**
Option 1 ID : **3878682965**
Option 2 ID : **3878682968**
Option 3 ID : **3878682966**
Option 4 ID : **3878682967**
Status : **Answered**
Chosen Option : **4**

**Q.56** Which of the following rock types is classified as metamorphic rock?

Ans
✗ 1. Limestone
✗ 2. Sandstone
✗ 3. Breccia
✔ 4. Gneiss

Question Type : **MCQ**
Question ID : **387868757**
Option 1 ID : **3878682964**
Option 2 ID : **3878682963**
Option 3 ID : **3878682961**
Option 4 ID : **3878682962**
Status : **Answered**
Chosen Option : **4**

**Q.57** Which of the following chemical compounds is a Bogue's compound present in cement and is responsible for the strength of cement?

Ans
✗ 1. $5\ CaO.Al_2O_3.K_2O$
✗ 2. $2\ CaO.SiO_2.Fe_2O_3$
✗ 3. $2\ CaO.SiO_3$
✔ 4. $3\ CaO.SiO_2$

Question Type : **MCQ**
Question ID : **387868773**
Option 1 ID : **3878683027**
Option 2 ID : **3878683025**
Option 3 ID : **3878683028**
Option 4 ID : **3878683026**
Status : **Answered**
Chosen Option : **4**

**Q.58** Which of the following welds is specified by penetration depth?

Ans    ✗ 1. Fillet weld

     ✔ 2. Butt weld

     ✗ 3. Slot weld

     ✗ 4. Plug weld

Question Type : **MCQ**
Question ID : **387868770**
Option 1 ID : **3878683014**
Option 2 ID : **3878683013**
Option 3 ID : **3878683015**
Option 4 ID : **3878683016**
Status : **Answered**
Chosen Option : **2**

**Q.59** What is meant by optimum water content?

Ans    ✗ 1. Water content corresponding to field density

     ✗ 2. Water content corresponding to zero air voids

     ✔ 3. Water content corresponding to the maximum dry density

     ✗ 4. Water content corresponding to the minimum dry density

Question Type : **MCQ**
Question ID : **387868807**
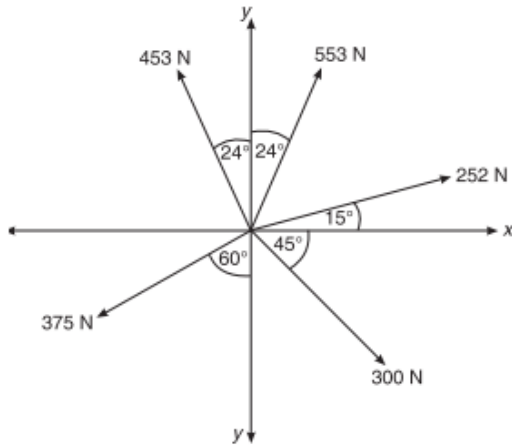Option 1 ID : **3878683164**
Option 2 ID : **3878683162**
Option 3 ID : **3878683161**
Option 4 ID : **3878683163**
Status : **Answered**
Chosen Option : **3**

**Q.60** Identify the type of force system shown in the figure below.



**Ans**  ✔ 1. Coplanar force system

✘ 2. Parallel force system

✘ 3. Collinear force system

✘ 4. Non-concurrent force system

**Q.61** _____ is the method of population forecast, which assumes that the percentage increase in population from decade to decade is constant.

**Ans**  ✘ 1. Arithmetic increase method

✘ 2. Incremental increase method

✘ 3. Subtractive decrease method

✔ 4. Geometrical increase method

**Q.62** If a uniformly varying load with a certain varying intensity is acting on a beam for a particular span, the variation (shape) of the bending moment will be _____.

**Ans**
✗ 1. linear
✗ 2. semicircular
✓ 3. cubic parabola
✗ 4. parabolic

Question Type : **MCQ**
Question ID : **387868765**
Option 1 ID : **3878682993**
Option 2 ID : **3878682996**
Option 3 ID : **3878682995**
Option 4 ID : **3878682994**
Status : **Answered**
Chosen Option : **3**

**Q.63** Which of the following cement types can be stored in cold weather conditions, for a longer duration (comparatively), without getting its desirable properties impaired?

**Ans**
✗ 1. Rapid hardening Portland cement
✓ 2. Hydrophobic cement
✗ 3. Quick set cement
✗ 4. Ordinary Portland cement

Question Type : **MCQ**
Question ID : **387868759**
Option 1 ID : **3878682972**
Option 2 ID : **3878682970**
Option 3 ID : **3878682969**
Option 4 ID : **3878682971**
Status : **Answered**
Chosen Option : **2**

**Q.64** Which of the below-mentioned statements is/are correct?

**Statement A:** If the total float and duration of an activity are 5 days and 20 days, respectively, the particular activity should be finished within 25 days.

**Statement B:** If the total float and duration of an activity are 5 days and 15 days, respectively, the particular activity can be completed 15 days later.

Ans
✔ 1. Statement A is correct and Statement B is incorrect.

✘ 2. Both the statements are correct.

✘ 3. Statement B is correct and Statement A is incorrect.

✘ 4. Both the statements are incorrect.

Question Type : **MCQ**
Question ID : **387868786**
Option 1 ID : **3878683077**
Option 2 ID : **3878683079**
Option 3 ID : **3878683078**
Option 4 ID : **3878683080**
Status : **Answered**
Chosen Option : **1**

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**Q.65** Find the total depth (delta) of the water required for a crop if the duty for a base period of 2400 hours is 900 hectares/cumec.

Ans
✘ 1. 105 cm

✔ 2. 96 cm

✘ 3. 80 cm

✘ 4. 112 cm

Question Type : **MCQ**
Question ID : **387868797**
Option 1 ID : **3878683123**
Option 2 ID : **3878683122**
Option 3 ID : **3878683121**
Option 4 ID : **3878683124**
Status : **Answered**
Chosen Option : **2**

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**Q.66** Which of the following members is an example of a post-tensioned structure?

Ans
✘ 1. Partition wall

✘ 2. Railway sleeper

✘ 3. Electric pole

✔ 4. Bridge girder

Question Type : **MCQ**
Question ID : **387868783**
Option 1 ID : **3878683067**
Option 2 ID : **3878683066**
Option 3 ID : **3878683065**
Option 4 ID : **3878683068**
Chosen Option : **4**

**Q.67** In which type of estimate should each item of the project be broken down into its parts and estimated?

Ans
- ✔ 1. Detailed estimate
- ✘ 2. Model estimating
- ✘ 3. Square foot estimate
- ✘ 4. Assembly estimating

Question Type : **MCQ**
Question ID : **387868796**
Option 1 ID : **3878683118**
Option 2 ID : **3878683120**
Option 3 ID : **3878683119**
Option 4 ID : **3878683117**
Status : **Answered**
Chosen Option : **1**

**Q.68** What is the provision given in IS 456-2000 for the design shear strength of concrete applicable for?

Ans
- ✘ 1. Two-way shear only
- ✘ 2. This is not specifically mentioned in IS 456-2000.
- ✔ 3. One-way shear only
- ✘ 4. Both one-way shear and two-way shear

Question Type : **MCQ**
Question ID : **387868778**
Option 1 ID : **3878683046**
Option 2 ID : **3878683048**
Option 3 ID : **3878683045**
Option 4 ID : **3878683047**
Status : **Answered**
Chosen Option : **4**

**Q.69** The maximum deflection due to load in reinforced cement concrete beams is limited to _____.

Ans
- ✘ 1. $\dfrac{span}{50}$
- ✘ 2. $\dfrac{span}{300}$
- ✘ 3. $\dfrac{span}{150}$
- ✔ 4. $\dfrac{span}{250}$

Question Type : **MCQ**
Question ID : **387868780**
Option 1 ID : **3878683053**
Option 2 ID : **3878683054**

Status : **Answered**

**Q.70** As per IRC specifications, what is the minimum width of single-lane roads with raised kerbs?

**Ans**
- ✗ 1. 2.44 m
- ✗ 2. 3.0 m
- ✓ 3. 3.75 m
- ✗ 4. 3.5 m

Question Type : **MCQ**
Question ID : **387868811**
Option 1 ID : **3878683178**
Option 2 ID : **3878683177**
Option 3 ID : **3878683179**
Option 4 ID : **3878683180**
Status : **Answered**
Chosen Option : **3**

**Q.71** Which of the following IS codes provide 'safety standards during excavation'?

**Ans**
- ✗ 1. IS 3696 : 1992
- ✓ 2. IS 3764 : 1992
- ✗ 3. IS 1121 : 1992
- ✗ 4. IS 2386 : 1992

Question Type : **MCQ**
Question ID : **387868787**
Option 1 ID : **3878683081**
Option 2 ID : **3878683082**
Option 3 ID : **3878683083**
Option 4 ID : **3878683084**
Status : **Answered**
Chosen Option : **1**

**Q.72** Which of the below-mentioned statements is/are correct?

**Statement A:** Natural processes convert carbon monoxide into some other compounds that are not harmful.

**Statement B:** Carbon monoxide is a permanent air pollutant.

**Ans**
- ✗ 1. Both the statements are incorrect.
- ✓ 2. Statement A is correct and Statement B is incorrect.
- ✗ 3. Both the statements are correct.
- ✗ 4. Statement B is correct and Statement A is incorrect.

Question Type : **MCQ**
Question ID : **387868815**
Option 1 ID : **3878683196**
Option 2 ID : **3878683193**
Option 3 ID : **3878683195**
Option 4 ID : **3878683194**
Status : **Answered**
Chosen Option : **3**

**Q.73** A typical beam-column member in a framed structure is subjected to _____.

Ans
   ✗ 1. axial compression only

   ✗ 2. axial tension and compression

   ✗ 3. axial tension only

   ✔ 4. axial compression and bending

Question Type : **MCQ**
Question ID : **387868771**
Option 1 ID : **3878683017**
Option 2 ID : **3878683020**
Option 3 ID : **3878683018**
Option 4 ID : **3878683019**
Status : **Answered**
Chosen Option : **4**

**Q.74** Short-term deflection of pre-stressed concrete beams is estimated by _____.

Ans
   ✔ 1. Mohr's theory

   ✗ 2. Hook's law

   ✗ 3. Euler's theory

   ✗ 4. Rankine's theory

Question Type : **MCQ**
Question ID : **387868784**
Option 1 ID : **3878683069**
Option 2 ID : **3878683072**
Option 3 ID : **3878683071**
Option 4 ID : **3878683070**
Status : **Answered**
Chosen Option : **3**

**Q.75** Calculate the quantity of earthwork using the mean sectional area method for a portion of a road. Height of the banks at the two ends of the road is 2 m and 3 m; formation width = 10 m; length = 40 m and side slopes = 2 : 1 (H : V).

Ans
   ✔ 1. 1520 m$^3$

   ✗ 2. 1250 m$^3$

   ✗ 3. 1770 m$^3$

   ✗ 4. 1375 m$^3$

Question Type : **MCQ**
Question ID : **387868795**
Option 1 ID : **3878683114**
Option 2 ID : **3878683113**
Option 3 ID : **3878683116**
Option 4 ID : **3878683115**
Status : **Answered**

**Q.76** Calculate the combined correction for curvature and refraction for a distance of 3 km.

**Ans**
  ✗ 1. 0.859m

  ✗ 2. 1.760 m

  ✓ 3. 0.605 m

  ✗ 4. 0.236 m

Question Type : **MCQ**

Question ID : **387868779**

Option 1 ID : **3878683051**

Option 2 ID : **3878683052**

Option 3 ID : **3878683050**

Option 4 ID : **3878683049**

Status : **Answered**

Chosen Option : **3**

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**Q.77** Identify the cross drainage work shown in the figure below.
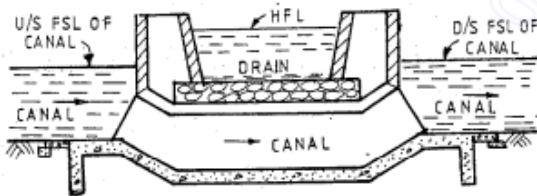


**Ans**
  ✗ 1. Level crossing

  ✗ 2. Aqueduct

  ✓ 3. Canal siphon

  ✗ 4. Super passage

Question Type : **MCQ**

Question ID : **387868800**

Option 1 ID : **3878683136**

Option 2 ID : **3878683135**

Option 3 ID : **3878683134**

Option 4 ID : **3878683133**

Status : **Answered**

Chosen Option : **3**

**Q.78** Seepage pressure always acts _____.

Ans   ✗ 1.   normal to the direction of flow

     ✓ 2.   in the direction of flow

     ✗ 3.   opposite to the direction of flow

     ✗ 4.   at 45° to the direction of flow

Question Type : **MCQ**
Question ID : **387868808**
Option 1 ID : **3878683165**
Option 2 ID : **3878683166**
Option 3 ID : **3878683167**
Option 4 ID : **3878683168**
Status : **Answered**
Chosen Option : **2**

**Q.79** Stoke is the unit of _____.

Ans   ✗ 1.   pressure of fluid in the SI system of units

     ✗ 2.   bulk modulus of fluid in the CGS system of units

     ✗ 3.   kinetic viscosity in the SI system of units

     ✓ 4.   kinematic viscosity in the CGS system of units

Question Type : **MCQ**
Question ID : **387868801**
Option 1 ID : **3878683140**
Option 2 ID : **3878683139**
Option 3 ID : **3878683138**
Option 4 ID : **3878683137**
Status : **Answered**
Chosen Option : **4**

**Q.80** A certain crop is grown in an area of 3000 hectares, which is fed by a canal system. The data pertaining to irrigation is as follows:

1. Field capacity of soil = 30%

2. Optimum moisture = 15%

3. Effective depth of root zone = 80 cm

4. Relative density of soil = 1.400

If the frequency of irrigation is 10 days and permanent wilting point = 10%, then find the daily consumptive use.

**Ans**

✗ 1. 36.2 mm

✔ 2. 16.8 mm

✗ 3. 7.6 mm

✗ 4. 29.4 mm

Question Type : **MCQ**
Question ID : **387868798**
Option 1 ID : **3878683128**
Option 2 ID : **3878683126**
Option 3 ID : **3878683125**
Option 4 ID : **3878683127**
Status : **Answered**
Chosen Option : **1**

**Q.81** Addition of air-entraining admixtures to concrete will:

**Ans**

✗ 1. cause segregation and bleeding in concrete

✗ 2. decrease the workability of concrete

✗ 3. increase the density of concrete

✔ 4.

increase the resistance of concrete to freezing and thawing effects

Question Type : **MCQ**
Question ID : **387868775**
Option 1 ID : **3878683034**
Option 2 ID : **3878683036**
Option 3 ID : **3878683033**
Option 4 ID : **3878683035**
Status : **Answered**
Chosen Option : **4**

**Q.82** Which of the following tests is used to determine the wear resistance of coarse aggregates?

**Ans**

✗ 1. Roughness value test

✗ 2. Impact value test

✗ 3. Crushing value test

✔ 4. Los Angeles abrasion value test

Question Type : **MCQ**
Question ID : **387868774**
Option 1 ID : **3878683029**
Option 2 ID : **3878683032**
Option 3 ID : **3878683030**
Option 4 ID : **3878683031**
Status : **Answered**
Chosen Option : **4**

**Q.83** Which of the following methods of road construction proposes that heavy foundation stones are not at all necessary to be placed at the bottom layer of the road and that the sub-grade shall be compacted and prepared with a cross slope of 1 in 36?

**Ans**

✗ 1. Tresaguet construction

✗ 2. Metcalf construction

✗ 3. Telford construction

✔ 4. Macadam construction

Question Type : **MCQ**
Question ID : **387868810**
Option 1 ID : **3878683175**
Option 2 ID : **3878683176**
Option 3 ID : **3878683174**
Option 4 ID : **3878683173**
Status : **Answered**
Chosen Option : **4**

**Q.84** Which of the following expressions is correct to calculate equilibrium super elevation in roads?

Here, 'e' is the rate of super elevation, 'f' is the design value of lateral friction, 'V' is the speed of the vehicle (in m/s), 'R' is the radius of the curve (in m) and 'g' is the acceleration due to gravity.

**Ans**

✗ 1. $e + f = \dfrac{V}{2gR}$

✗ 2. $e + f = \dfrac{V^2}{2gR}$

✗ 3. $e + f = \dfrac{V^3}{2gR}$

✔ 4. $e + f = \dfrac{V^2}{gR}$

**Q.85** Identify the type of truss shown in the figure below, based on the degree of redundancy.

Consider that truss is supported with roller type at Joint 4 and hinged type at Joint 1.



**Ans**
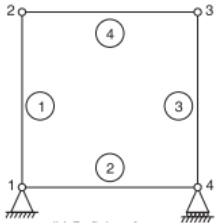
✔ 1. Deficient truss

✗ 2. Redundant truss

✗ 3. Rigid truss

✗ 4. Perfect truss

**Q.86** The load-carrying mechanism in the web of a plate girder post-buckling is analogous to:

Ans
- ✔ 1. N-truss
- ✘ 2. simple truss
- ✘ 3. K-truss
- ✘ 4. a truss

Question Type : **MCQ**
Question ID : **387868772**
Option 1 ID : **3878683023**
Option 2 ID : **3878683022**
Option 3 ID : **3878683024**
Option 4 ID : **3878683021**
Status : **Answered**
Chosen Option : **1**

**Q.87** The strain distribution in the limit state design of pre-stressed concrete structures is assumed to be _____.

Ans
- ✘ 1. parabolic
- ✘ 2. parabolic till neutral axis and then, linear
- ✔ 3. linear
- ✘ 4. rectangular till neutral axis and then, zero

Question Type : **MCQ**
Question ID : **387868782**
Option 1 ID : **3878683062**
Option 2 ID : **3878683063**
Option 3 ID : **3878683061**
Option 4 ID : **3878683064**
Status : **Answered**
Chosen Option : **3**

**Q.88** A string ABCD is subjected to two-point loads as shown in the figure. Calculate the tension force in segment CD.
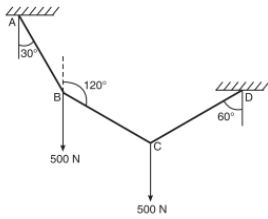


Ans   ✗ 1.   250 N

      ✗ 2.   386.6 N

      ✓ 3.   500 N

      ✗ 4.   424.4 N

Question Type : **MCQ**
Question ID : **387868761**
Option 1 ID : **3878682980**
Option 2 ID : **3878682977**
Option 3 ID : **3878682979**
Option 4 ID : **3878682978**
Status : **Answered**
Chosen Option : **2**

**Q.89** What is the total area of raking out and re-pointing operations for external walls of the building shown below? Ignore the deductions for door and window openings.
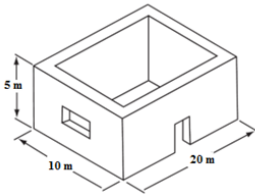


Ans   ✗ 1.   400 m$^2$

      ✗ 2.   200 m$^2$

      ✓ 3.   300 m$^2$

      ✗ 4.   150 m$^2$

Question Type : **MCQ**
Question ID : **387868794**
Option 1 ID : **3878683112**
Option 2 ID : **3878683109**
Option 3 ID : **3878683111**
Option 4 ID : **3878683110**
Status : **Answered**
Chosen Option : **3**

**Q.90** Which of the following beam types has the minimum number of redundancies?

Ans
- ✗ 1. Two-hinged arch
- ✗ 2. Propped cantilever beam
- ✓ 3. Cantilever beam
- ✗ 4. Fixed-support beam

Question Type : **MCQ**
Question ID : **387868768**
Option 1 ID : **3878683006**
Option 2 ID : **3878683005**
Option 3 ID : **3878683007**
Option 4 ID : **3878683008**
Status : **Answered**
Chosen Option : **3**

**Q.91** Bulk modulus of a fluid is the ratio of _____.

Ans
- ✗ 1. shear stress to shear strain
- ✗ 2. volumetric stress to volumetric strain
- ✓ 3. the increase in pressure to the volumetric strain
- ✗ 4. normal stress to normal strain

Question Type : **MCQ**
Question ID : **387868802**
Option 1 ID : **3878683141**
Option 2 ID : **3878683144**
Option 3 ID : **3878683143**
Option 4 ID : **3878683142**
Status : **Answered**
Chosen Option : **3**

**Q.92** As per IS 10500, what is the maximum acceptable limit of boron content in drinking water?

Ans
- ✗ 1. 0.1 mg/l
- ✓ 2. 0.5 mg/l
- ✗ 3. 10 mg/l
- ✗ 4. 100 mg/l

Question Type : **MCQ**
Question ID : **387868814**
Option 1 ID : **3878683189**
Option 2 ID : **3878683190**
Option 3 ID : **3878683191**
Option 4 ID : **3878683192**
Status : **Answered**
Chosen Option : **2**

**Q.93** Which of the following expressions is correct, to compute the moment of inertia of a rectangular lamina ABCD, about an axis parallel to base AB and passing through the centroid?

Consider base width AB = b mm and depth AD = d mm.

**Ans**

✗ 1. $\frac{bd^3}{3}$ mm$^4$

✗ 2. $\frac{bd^3}{36}$ mm$^4$

✗ 3. $\frac{bd^3}{16}$ mm$^4$

✔ 4. $\frac{bd^3}{12}$ mm$^4$

Question Type : **MCQ**
Question ID : **387868763**
Option 1 ID : **3878682985**
Option 2 ID : **3878682987**
Option 3 ID : **3878682988**
Option 4 ID : **3878682986**
Status : **Answered**
Chosen Option : **4**

**Q.94** A quarter of a circular lamina with radius r = 45 mm is shown in the figure below. The location of the centroid measured with respect to its diametric X-axis is at a distance of _____ mm.
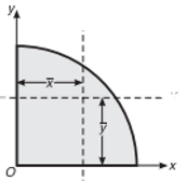


**Ans**

✗ 1. $\frac{45}{\pi}$

✗ 2. $60\pi$

✔ 3. $\frac{60}{\pi}$

✗ 4. $45\pi$

Question Type : **MCQ**
Question ID : **387868762**
Option 1 ID : **3878682983**
Option 2 ID : **3878682984**
Option 3 ID : **3878682981**
Option 4 ID : **3878682982**
Status : **Answered**
Chosen Option : **3**

**Q.95** Which of the following equipment is more suitable to lift concrete to a greater height in multi-storeyed buildings?

Ans
- ✗ 1. Belt conveyors
- ✔ 2. Skip and hoist
- ✗ 3. Transit mixers
- ✗ 4. Wheel barrow

Question Type : **MCQ**
Question ID : **387868776**
Option 1 ID : **3878683040**
Option 2 ID : **3878683038**
Option 3 ID : **3878683037**
Option 4 ID : **3878683039**
Status : **Answered**
Chosen Option : **3**

**Q.96** A triangular lamina with base width b = 40 mm and height d = 60 mm is shown in the figure below. The location of the centroid measured with respect to its apex is at a distance of _____.
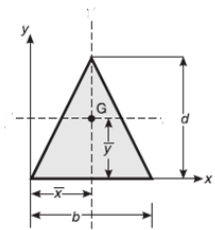


Ans
- ✗ 1. 33.33 mm
- ✗ 2. 20.00 mm
- ✔ 3. 40.00 mm
- ✗ 4. 30.00 mm

Question Type : **MCQ**
Question ID : **387868788**
Option 1 ID : **3878683088**
Option 2 ID : **3878683085**
Option 3 ID : **3878683086**
Option 4 ID : **3878683087**
Status : **Answered**
Chosen Option : **3**

**Q.97** Calculate the tangent length of a simple circular curve if its radius is 500 m and the deflection angle is 90°.

Ans
- ✗ 1. 750 m
- ✗ 2. 250 m
- ✔ 3. 500 m
- ✗ 4. 325 m

Question Type : **MCQ**
Question ID : **387868792**
Option 1 ID : **3878683104**
Option 2 ID : **3878683101**
Option 3 ID : **3878683103**
Option 4 ID : **3878683102**
Status : **Answered**
Chosen Option : **3**

**Q.98** Which of the below-mentioned statements with respect to Euler's column theory is/are correct?

**Statement A:** The effect of direct stresses is neglected in the equation derived by Euler, which is used to study the stability of long columns.

**Statement B:** Euler's formula can be used in case of short columns.

Ans
- ✗ 1. Statement B is correct and Statement A is incorrect.
- ✗ 2. Both the statements are correct.
- ✗ 3. Both the statements are incorrect.
- ✔ 4. Statement A is correct and Statement B is incorrect.

Question Type : **MCQ**
Question ID : **387868766**
Option 1 ID : **3878682998**
Option 2 ID : **3878682999**
Option 3 ID : **3878683000**
Option 4 ID : **3878682997**
Status : **Answered**
Chosen Option : **4**

**Q.99** As per IS 4954-1968, what is the acceptable outdoor noise level in residential areas in cities?

Ans
- ✗ 1. 80 dB to 100 dB
- ✔ 2. 45 dB to 55 dB
- ✗ 3. 75 dB to 85 dB
- ✗ 4. 60 dB to 70 dB

Question Type : **MCQ**
Question ID : **387868816**
Option 1 ID : **3878683199**
Option 2 ID : **3878683197**
Option 3 ID : **3878683200**
Option 4 ID : **3878683198**
Status : **Answered**
Chosen Option : **2**

**Q.100** Which of the below-mentioned statements with respect to Hooke's law on stresses and strains developed in objects is/are correct?

**Statement A:** Hooke's law is applicable to the objects subjected to tensile or compressive stresses up to a certain limit.

**Statement B:** When a material is loaded, the ratio of the intensity of stress to the corresponding strain is called Young's modulus.

Ans
✗ 1. Statement A is correct and Statement B is incorrect.

✗ 2. Both the statements are incorrect.

✗ 3. Statement B is correct and Statement A is incorrect.

✔ 4. Both the statements are correct.

Question Type : **MCQ**
Question ID : **387868764**
Option 1 ID : **3878682989**
Option 2 ID : **3878682992**
Option 3 ID : **3878682990**
Option 4 ID : **3878682991**
Status : **Answered**
Chosen Option : **4**

महाराष्ट्र शासन
जलसंपदा विभाग
कनिष्ठ अभियंता (स्थापत्य) गट-ब (अराजपत्रित) सरळसेवा परीक्षा-२०१९

| Participant ID | 123 |
|---|---|
| Participant Name | xyz |
| Test Center Name | iON Digital Zone iDZ Ramtekdi 1 |
| Test Date | 12/08/2022 |
| Test Time | 4:00 PM - 5:30 PM |
| Subject | Cluster 1 |

Section : **English**

**Q.1** **Select the most appropriate ANTONYM of the given word.**
**Barren**

**Ans** ✔ 1. Fertile

✘ 2. Rocky

✘ 3. Swampy

✘ 4. Fallow

Question Type : **MCQ**
Question ID : **387868820**
Option 1 ID : **3878683215**
Option 2 ID : **3878683214**
Option 3 ID : **3878683213**
Option 4 ID : **3878683216**
Status : **Answered**
Chosen Option : **1**

**Q.2** **Select the most appropriate meaning of the given idiom.**
**Light fingered person**

**Ans** ✘ 1. One who is emotional

✔ 2. One who is a thief

✘ 3. One who is a musician

✘ 4. One who is an artist

Question Type : **MCQ**
Question ID : **387868822**
Option 1 ID : **3878683223**
Option 2 ID : **3878683221**
Option 3 ID : **3878683224**
Option 4 ID : **3878683222**
Status : **Answered**
Chosen Option : **1**

**Q.3** Select the most appropriate option to fill in the blank.

He does not have _____ money to pay his rent this month.

**Ans**    ✘ 1. Little

✘ 2. Some

✘ 3. all

✔ 4. any

Question Type : **MCQ**

Question ID : **387868817**

Option 1 ID : **3878683202**

Option 2 ID : **3878683201**

Option 3 ID : **3878683204**

Option 4 ID : **3878683203**

Status : **Answered**

Chosen Option : **4**

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**Q.4** Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. But in connecting, they often end up feeling more isolated.

B. When young people are alone, even for a minute or two, they feel the need to connect on some social network.

C. Thus, we must learn to collect our thoughts and be comfortable being alone.

D. This is because by being in constant connection, they lose the ability to feel satisfied with their own company.

**Ans**    ✔ 1. BADC

✘ 2. CDAB

✘ 3. CBDA

✘ 4. BDCA

Question Type : **MCQ**

Question ID : **387868823**

Option 1 ID : **3878683228**

Option 2 ID : **3878683225**

Option 3 ID : **3878683227**

Option 4 ID : **3878683226**

Status : **Answered**

Chosen Option : **1**

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**Q.5** Select the most appropriate option to fill in the blank.

If you went away now, we _____ you.

**Ans**    ✘ 1. were missing

✘ 2. had missed

✘ 3. missed

✔ 4. would miss

Question Type : **MCQ**

Question ID : **387868819**

Option 1 ID : **3878683211**

Option 2 ID : **3878683210**

Option 3 ID : **3878683209**

Option 4 ID : **3878683212**

Status : **Answered**

**Q.6** Select the most appropriate option to fill in the blank.
Why have you picked a quarrel _____ him?

**Ans** ✗ 1. on

✗ 2. from

✓ 3. with

✗ 4. by

Question Type : **MCQ**
Question ID : **387868818**
Option 1 ID : **3878683208**
Option 2 ID : **3878683207**
Option 3 ID : **3878683206**
Option 4 ID : **3878683205**
Status : **Answered**
Chosen Option : **3**

**Q.7** Select the most appropriate synonym of the given word.
Indolence

**Ans** ✓ 1. Laziness

✗ 2. Intelligence

✗ 3. Exhibition

✗ 4. Inadequacy

Question Type : **MCQ**
Question ID : **387868821**
Option 1 ID : **3878683218**
Option 2 ID : **3878683219**
Option 3 ID : **3878683217**
Option 4 ID : **3878683220**
Status : **Answered**
Chosen Option : **1**

**Comprehension:**

Read the given passage and answer the questions that follow.

In Spain, children and their families are riding bikes to school together in large groups. The program is called 'bicibús' or bike bus. In Barcelona, the program started recently with only five children and grew quickly to hundreds of riders.

In the Eixample area of Barcelona, a group of five children began biking to school with their parents on Fridays. Soon the group grew to 150 or more. The bike bus begins around 8:25 every Friday morning.

The path it follows is always posted ahead of time, so everyone knows where to join. Instead of riding in bike lanes or on sidewalks, the bicibús takes over the entire street. The commuting time of bikers takes about 25 minutes. And with the ever-growing cycling and skating kids taking part in this bike bus culture, the local police are helping stop traffic by riding in front of the bicibús and behind it.

This further makes the parents happy that with the additional security their children will commute safely to school. With music playing and bike bells ringing, the bicibus feels like a party. Parents are hoping that the bicibus will help change ideas about how people can get around in the city. They want the city to create wider, kid-friendly bike lanes that are separate from car traffic. They point out that the bicibús also helps cut down on pollution.

**SubQuestion No : 8**

**Q.8** **What more do parents expect for the safety of their kids going to school?**

**Ans** ✔️ 1. Wider bike lanes for kids without car traffic

✖️ 2. Total prohibition of traffic on the roads

✖️ 3. Police escorting kids to and from school daily

✖️ 4. No pollution on the entire bicibus route

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868825** |
| Option 1 ID : | **3878683230** |
| Option 2 ID : | **3878683229** |
| Option 3 ID : | **3878683231** |
| Option 4 ID : | **3878683232** |
| Status : | **Answered** |
| Chosen Option : | **1** |

**Comprehension:**

Read the given passage and answer the questions that follow.

In Spain, children and their families are riding bikes to school together in large groups. The program is called 'bicibús' or bike bus. In Barcelona, the program started recently with only five children and grew quickly to hundreds of riders.

In the Eixample area of Barcelona, a group of five children began biking to school with their parents on Fridays. Soon the group grew to 150 or more. The bike bus begins around 8:25 every Friday morning.

The path it follows is always posted ahead of time, so everyone knows where to join. Instead of riding in bike lanes or on sidewalks, the bicibús takes over the entire street. The commuting time of bikers takes about 25 minutes. And with the ever-growing cycling and skating kids taking part in this bike bus culture, the local police are helping stop traffic by riding in front of the bicibús and behind it.

This further makes the parents happy that with the additional security their children will commute safely to school. With music playing and bike bells ringing, the bicibus feels like a party. Parents are hoping that the bicibus will help change ideas about how people can get around in the city. They want the city to create wider, kid-friendly bike lanes that are separate from car traffic. They point out that the bicibús also helps cut down on pollution.

**SubQuestion No : 9**

**Q.9  Which of the following statements is NOT correct?**

Ans  ✗ 1. Bikers can join anywhere on the predefined route.

✗ 2. Bikers don't stick to sidewalks but occupy the entire street.

✔ 3. The Bicibus programme involves kids biking to school together every weekend.

✗ 4. Bicibus started recently in Barcelona with just five children.

| | |
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| Question Type : | **MCQ** |
| Question ID : | **387868826** |
| Option 1 ID : | **3878683235** |
| Option 2 ID : | **3878683236** |
| Option 3 ID : | **3878683233** |
| Option 4 ID : | **3878683234** |
| Status : | **Answered** |
| Chosen Option : | **3** |

**Comprehension:**

Read the given passage and answer the questions that follow.

In Spain, children and their families are riding bikes to school together in large groups. The program is called 'bicibús' or bike bus. In Barcelona, the program started recently with only five children and grew quickly to hundreds of riders.

In the Eixample area of Barcelona, a group of five children began biking to school with their parents on Fridays. Soon the group grew to 150 or more. The bike bus begins around 8:25 every Friday morning.

The path it follows is always posted ahead of time, so everyone knows where to join. Instead of riding in bike lanes or on sidewalks, the bicibús takes over the entire street. The commuting time of bikers takes about 25 minutes. And with the ever-growing cycling and skating kids taking part in this bike bus culture, the local police are helping stop traffic by riding in front of the bicibús and behind it.

This further makes the parents happy that with the additional security their children will commute safely to school. With music playing and bike bells ringing, the bicibus feels like a party. Parents are hoping that the bicibus will help change ideas about how people can get around in the city. They want the city to create wider, kid-friendly bike lanes that are separate from car traffic. They point out that the bicibús also helps cut down on pollution.

**SubQuestion No : 10**

**Q.10 Which word in the passage means 'travelling regularly between work/school '**

Ans  ✗ 1. Biking

✗ 2. Skating

✗ 3. Cycling

✓ 4. Commuting

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868827** |
| Option 1 ID : | **3878683240** |
| Option 2 ID : | **3878683237** |
| Option 3 ID : | **3878683238** |
| Option 4 ID : | **3878683239** |
| Status : | **Answered** |
| Chosen Option : | **1** |

Section : **Marathi**

**Q.11 " चोराच्या मनात चांदणे " या म्हणीच्या अर्थाशी जुळणारी म्हण शोधा.**

Ans  ✗ 1. कोल्हा काकडीला राजी

✗ 2. खायला काळ, भुईला भार

✗ 3. करावे तसे भरावे

✓ 4. खाई त्याला खवखवे

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868833** |
| Option 1 ID : | **3878683262** |
| Option 2 ID : | **3878683264** |
| Option 3 ID : | **3878683261** |
| Option 4 ID : | **3878683263** |
| Status : | **Answered** |
| Chosen Option : | **1** |

**Q.12** " मंजूळ " या शब्दाचा विरुद्धार्थी शब्द शोधा.

**Ans** ✅ 1. कर्कश

❌ 2. मंद

❌ 3. कृश

❌ 4. मधुर

Question Type : **MCQ**

Question ID : **387868831**

Option 1 ID : **3878683254**

Option 2 ID : **3878683256**

Option 3 ID : **3878683255**

Option 4 ID : **3878683253**

Status : **Answered**

Chosen Option : **1**

**Q.13** ' मूर्तिमंत ' शब्दाचा समानार्थी शब्द कोणता?

**Ans** ❌ 1. संपूर्ण

✅ 2. साक्षात

❌ 3. संपर्क

❌ 4. संपन्न

Question Type : **MCQ**

Question ID : **387868832**

Option 1 ID : **3878683258**

Option 2 ID : **3878683257**

Option 3 ID : **3878683259**

Option 4 ID : **3878683260**

Status : **Answered**

Chosen Option : **4**

**Q.14** घरी मांजराची गोंडस पिल्ले आहेत. या वाक्यातील विशेषण ओळखा.

**Ans** ❌ 1. पिल्ले

❌ 2. घरी

✅ 3. गोंडस

❌ 4. आहेत

Question Type : **MCQ**

Question ID : **387868829**

Option 1 ID : **3878683246**

Option 2 ID : **3878683248**

Option 3 ID : **3878683247**

Option 4 ID : **3878683245**

Status : **Answered**

Chosen Option : **3**

**Q.15** " घरा _____ पिंपळाच्या झाडाला तिने फेऱ्या मारल्या. "

रिकाम्या जागी योग्य अव्ययाचा वापर करा.

**Ans**
✔️ 1. पुढील

❌ 2. विषयी

❌ 3. केवळ

❌ 4. वरील

Question Type : **MCQ**
Question ID : **387868828**
Option 1 ID : **3878683244**
Option 2 ID : **3878683241**
Option 3 ID : **3878683242**
Option 4 ID : **3878683243**
Status : **Answered**
Chosen Option : **1**

**Q.16** मी शाळेत गेलो होतो. या वाक्याचे अपूर्ण भविष्यकाळातील रूप सांगा.

**Ans**
❌ 1. मी शाळेत गेलो असेन.

❌ 2. मी शाळेत जात होतो.

❌ 3. मी शाळेत जाईन.

✔️ 4. मी शाळेत जात असेन.

Question Type : **MCQ**
Question ID : **387868830**
Option 1 ID : **3878683252**
Option 2 ID : **3878683251**
Option 3 ID : **3878683249**
Option 4 ID : **3878683250**
Status : **Answered**
Chosen Option : **4**

**Q.17** अचूक वाक्य शोधा.

**Ans**
✔️ 1. त्याचे काका वामनराव हे गावातील प्रतिष्ठित व्यक्ती समजले जात होते.

❌ 2. त्याचे वामनराव हे प्रतिष्ठित गावातील व्यक्ती काका समजले जात होते.

❌ 3. गावातील प्रतिष्ठित वामनराव हे त्याचे काका व्यक्ती समजले जात होते.

❌ 4. काका त्याचे वामनराव गावातील हे प्रतिष्ठित व्यक्ती समजले जात होते.

Question Type : **MCQ**
Question ID : **387868834**
Option 1 ID : **3878683265**
Option 2 ID : **3878683266**
Option 3 ID : **3878683268**
Option 4 ID : **3878683267**
Status : **Answered**
Chosen Option : **1**

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या.

आपल्या परिसराचा नकाशा बहुतेक सर्व पक्षी आपल्या डोक्यात साठवून ठेवतात. 'हनी गाईड' नावाचा चिमणीसारखा पक्षी त्याच्या परिसरातील सगळ्या मधाच्या पोळ्यांचा आराखडा त्याच्या डोक्यात बाळगून असतो.कारण मधमाशांच्या पोळ्यातील अळ्या हे त्याचे अतिशय आवडते खाणे आहे.पण पोळ्यावर हल्ला करून ते मिळवणे त्याला शक्य होत नाही. मग तो त्यासाठी पोळ्यातील मध खाणाऱ्या अस्वलासारख्या प्राण्याशी सहकार्य करतो.तो त्या प्राण्याला मधमाशांच्या पोळ्याचा मार्ग दाखवतो.त्याने पोळे काढून मध खायला सुरुवात केली की हा पोळ्याच्या तुकड्यातल्या मधमाशांच्या अळ्यांवर ताव मारतो. हा पक्षी केवळ प्राण्यांनाच नव्हे तर माणसांनाही पोळ्याकडे घेऊन जातो. तसेच टिटवी हा सुद्धा हुशार पक्षी आहे.आपल्या घरट्याच्या दिशेने येणाऱ्या शत्रूला फसवून भलत्याच दिशेने घेऊन जाण्यात टिटवीसारखे जमिनीवर घरटे बांधणारे पक्षी माहीर असतात. कोल्ह्यासारखे प्राणी त्याची अंडी,पिल्ले खायला आले की त्यांना हूल देण्यासाठी ते स्वतःच्या घरट्यापासून दूर जातात आणि जोरात ओरडत राहतात.त्यामुळे कोल्हा त्यांना पकडायला घरट्यापासून दूर जातो.आणि त्यांच्या मागोमाग येतो.टिटवीची पिल्ले सुरक्षित राहतात.

**SubQuestion No : 18**

**Q.18** ' मांडणी ' या अर्थाचा कोणता शब्द उताऱ्यामध्ये आहे?

Ans  ✖ 1. हूल

  ✔ 2. आराखडा

  ✖ 3.  माहीर

  ✖ 4. सहकार्य

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|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868837** |
| Option 1 ID : | **3878683276** |
| Option 2 ID : | **3878683275** |
| Option 3 ID : | **3878683273** |
| Option 4 ID : | **3878683274** |
| Status : | **Answered** |
| Chosen Option : | **2** |

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या.

आपल्या परिसराचा नकाशा बहुतेक सर्व पक्षी आपल्या डोक्यात साठवून ठेवतात. 'हनी गाईड' नावाचा चिमणीसारखा पक्षी त्याच्या परिसरातील सगळ्या मधाच्या पोळ्यांचा आराखडा त्याच्या डोक्यात बाळगून असतो.कारण मधमाशांच्या पोळ्यातील अळ्या हे त्याचे अतिशय आवडते खाणे आहे.पण पोळ्यावर हल्ला करून ते मिळवणे त्याला शक्य होत नाही. मग तो त्यासाठी पोळ्यातील मध खाणाऱ्या अस्वलासारख्या प्राण्याशी सहकार्य करतो.तो त्या प्राण्याला मधमाशांच्या पोळ्याचा मार्ग दाखवतो.त्याने पोळे काढून मध खायला सुरुवात केली की हा पोळ्याच्या तुकड्यातल्या मधमाशांच्या अळ्यांवर ताव मारतो. हा पक्षी केवळ प्राण्यांनाच नव्हे तर माणसांनाही पोळ्याकडे घेऊन जातो. तसेच टिटवी हा सुद्धा हुशार पक्षी आहे.आपल्या घरट्याच्या दिशेने येणाऱ्या शत्रूला फसवून भलत्याच दिशेने घेऊन जाण्यात टिटवीसारखे जमिनीवर घरटे बांधणारे पक्षी माहीर असतात. कोल्ह्यासारखे प्राणी त्याची अंडी,पिल्ले खायला आले की त्यांना हूल देण्यासाठी ते स्वतःच्या घरट्यापासून दूर जातात आणि जोरात ओरडत राहतात.त्यामुळे कोल्हा त्यांना पकडायला घरट्यापासून दूर जातो.आणि त्यांच्या मागोमाग येतो.टिटवीची पिल्ले सुरक्षित राहतात.

**SubQuestion No : 19**

**Q.19** हनी गाईडचे आवडते अन्न कोणते?

Ans ✗ 1. चारा

✗ 2. पक्ष्यांची अंडी

✗ 3. मध

✔ 4. मधमाशांच्या अळ्या

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868838** |
| Option 1 ID : | **3878683277** |
| Option 2 ID : | **3878683278** |
| Option 3 ID : | **3878683280** |
| Option 4 ID : | **3878683279** |
| Status : | **Answered** |
| Chosen Option : | **4** |

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या.

आपल्या परिसराचा नकाशा बहुतेक सर्व पक्षी आपल्या डोक्यात साठवून ठेवतात. 'हनी गाईड' नावाचा चिमणीसारखा पक्षी त्याच्या परिसरातील सगळ्या मधाच्या पोळ्यांचा आराखडा त्याच्या डोक्यात बाळगून असतो.कारण मधमाशांच्या पोळ्यातील अळ्या हे त्याचे अतिशय आवडते खाणे आहे.पण पोळ्यावर हल्ला करून ते मिळवणे त्याला शक्य होत नाही. मग तो त्यासाठी पोळ्यातील मध खाणाऱ्या अस्वलासारख्या प्राण्याशी सहकार्य करतो.तो त्या प्राण्याला मधमाशांच्या पोळ्याचा मार्ग दाखवतो.त्याने पोळे काढून मध खायला सुरुवात केली की हा पोळ्याच्या तुकड्यातल्या मधमाशांच्या अळ्यांवर ताव मारतो. हा पक्षी केवळ प्राण्यांनाच नव्हे तर माणसांनाही पोळ्याकडे घेऊन जातो. तसेच टिटवी हा सुद्धा हुशार पक्षी आहे.आपल्या घरट्याच्या दिशेने येणाऱ्या शत्रूला फसवून भलत्याच दिशेने घेऊन जाण्यात टिटवीसारखे जमिनीवर घरटे बांधणारे पक्षी माहीर असतात. कोल्ह्यासारखे प्राणी त्याची अंडी,पिल्ले खायला आले की त्यांना हूल देण्यासाठी ते स्वतःच्या घरट्यापासून दूर जातात आणि जोरात ओरडत राहतात.त्यामुळे कोल्हा त्यांना पकडायला घरट्यापासून दूर जातो.आणि त्यांच्या मागोमाग येतो.टिटवीची पिल्ले सुरक्षित राहतात.

**SubQuestion No : 20**

**Q.20** यात कोणकोणत्या पक्ष्यांबद्दल विशेष माहिती आहे?

Ans ✖ 1. चिमणी,टिटवी

✔ 2. टिटवी, हनी गाईड

✖ 3. टिटवी,मधमाशी

✖ 4. हनी गाईड ,चिमणी

Question Type : **MCQ**
Question ID : **387868836**
Option 1 ID : **3878683269**
Option 2 ID : **3878683270**
Option 3 ID : **3878683271**
Option 4 ID : **3878683272**
Status : **Answered**
Chosen Option : **2**

Section : **General Knowledge**

**Q.21** Which of the following is correct in increasing order of the percentage of the population of the religious communities in Maharashtra?

Ans ✔ 1. Sikhism, Christianity, Jainism, Buddhism

✖ 2. Sikhism, Buddhism, Jainism, Christianity

✖ 3. Christianity, Jainism, Buddhism, Sikhism

✖ 4. Christianity, Buddhism, Jainism, Sikhism

Question Type : **MCQ**
Question ID : **387868848**
Option 1 ID : **3878683319**
Option 2 ID : **3878683320**
Option 3 ID : **3878683317**
Option 4 ID : **3878683318**
Status : **Marked For Review**
Chosen Option : **2**

**Q.22** In which of the following districts is the Radhanagari Bison Sanctuary, accredited as a world Heritage by UNESCO located?

**Ans** ✘ 1. Palghar

✘ 2. Aurangabad

✘ 3. Yavatmal

✔ 4. Kolhapur

Question Type : **MCQ**
Question ID : **387868846**
Option 1 ID : **3878683309**
Option 2 ID : **3878683310**
Option 3 ID : **3878683311**
Option 4 ID : **3878683312**
Status : **Answered**
Chosen Option : **4**

**Q.23** Who was first the speaker and first chief minister of the Maharashtra legislative assembly, respectively, in 1960?

**Ans** ✘ 1. Balasaheb Shivram Bharde and Vasantrao Phulsing Naik

✔ 2. Sayaji Silam and Yashwantrao Balwantrao Chavan

✘ 3. Shivraj Vishwanath Patil and Parashuram Krishnaji Sawant

✘ 4. Balasaheb Desai and Vasantrao Phulsing Naik

Question Type : **MCQ**
Question ID : **387868844**
Option 1 ID : **3878683301**
Option 2 ID : **3878683302**
Option 3 ID : **3878683304**
Option 4 ID : **3878683303**
Status : **Answered**
Chosen Option : **2**

**Q.24** What amount of accident insurance cover is provided by the 'Pradhan Mantri Jan-Dhan Yojana (PMJDY)' scheme?

**Ans** ✘ 1. ₹3 lakh

✘ 2. ₹4 lakh

✘ 3. ₹2 lakh

✔ 4. ₹1 lakh

Question Type : **MCQ**
Question ID : **387868842**
Option 1 ID : **3878683295**
Option 2 ID : **3878683296**
Option 3 ID : **3878683294**
Option 4 ID : **3878683293**
Status : **Answered**
Chosen Option : **4**

**Q.25** World Air Quality Report 2021, finds that _____, one of the principal pollutants in Northern Indian cities including Delhi, is estimated to cause over 3,000,000 premature deaths in India.

**Ans**  ✗ 1. PM 0.5

✓ 2. PM 2.5

✗ 3. PM 1.4

✗ 4. PM 1.8

Question Type : **MCQ**
Question ID : **387868841**
Option 1 ID : **3878683290**
Option 2 ID : **3878683292**
Option 3 ID : **3878683291**
Option 4 ID : **3878683289**
Status : **Answered**
Chosen Option : **2**

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**Q.26** महाराष्ट्राच्या अक्षांश विस्ताराचे अचूक वर्णन खालीलपैकी कोणता पर्याय करते?

**Ans**  ✗ 1. 14° 35' N to 22° 02' N

✗ 2. 15° 02' N to 23° 02' N

✓ 3. 15° 35' N to 22° 02' N

✗ 4. 15° 35' N to 23° 02' N

Question Type : **MCQ**
Question ID : **387868847**
Option 1 ID : **3878683316**
Option 2 ID : **3878683315**
Option 3 ID : **3878683314**
Option 4 ID : **3878683313**
Status : **Marked For Review**
Chosen Option : **3**

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**Q.27** In general, the competitive behaviour and competitive market structure are:

**Ans**  ✓ 1. inversely related

✗ 2. directly related

✗ 3. inversely related in the beginning and after some time directly related

✗ 4. not at all related

Question Type : **MCQ**
Question ID : **387868843**
Option 1 ID : **3878683297**
Option 2 ID : **3878683298**
Option 3 ID : **3878683300**
Option 4 ID : **3878683299**
Status : **Answered**
Chosen Option : **2**

**Q.28** According to which article of the Indian Constitution Governor of Maharashtra appoints the Advocate-General?

**Ans**   ✗ 1. Article 175

   ✓ 2. Article 165

   ✗ 3. Article 160

   ✗ 4. Article 172

Question Type : **MCQ**
Question ID : **387868845**
Option 1 ID : **3878683308**
Option 2 ID : **3878683306**
Option 3 ID : **3878683305**
Option 4 ID : **3878683307**
Status : **Answered**
Chosen Option : **4**

**Q.29** Viral Sudhirbhai Desai who was honoured with the Global Environment and Climate Action Citizen Award 2021 is popularly known as the Green man of:

**Ans**   ✓ 1. Gujarat

   ✗ 2. Rajasthan

   ✗ 3. Maharashtra

   ✗ 4. Karnataka

Question Type : **MCQ**
Question ID : **387868840**
Option 1 ID : **3878683285**
Option 2 ID : **3878683286**
Option 3 ID : **3878683287**
Option 4 ID : **3878683288**
Status : **Answered**
Chosen Option : **3**

**Q.30** Which state won the Khelo India Youth Games (KIYG) 2021 title with 52 gold medals on the final day?

**Ans**   ✗ 1. Gujarat

   ✓ 2. Haryana

   ✗ 3. Punjab

   ✗ 4. Kerala

Question Type : **MCQ**
Question ID : **387868839**
Option 1 ID : **3878683282**
Option 2 ID : **3878683284**
Option 3 ID : **3878683283**
Option 4 ID : **3878683281**
Status : **Answered**
Chosen Option : **2**

Section : **Logical Ability**

**Q.31** Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements :
Some phones are cells.
Some cells are boxes.
All the boxes are mobiles.

Conclusions:
I. Some mobiles are cells.
II. Some boxes are phones.
III. No box is phone.
IV. Some cells are phones.

**Ans** ✗ 1. Both Conclusions II and III follow.

✗ 2. Both Conclusions I and II follow.

✗ 3. Both Conclusions II and IV follow.

✓ 4. Both conclusions I and IV and either conclusion II or conclusion III follow.

Question Type : **MCQ**
Question ID : **387868851**
Option 1 ID : **3878683331**
Option 2 ID : **3878683329**
Option 3 ID : **3878683330**
Option 4 ID : **3878683332**
Status : **Answered**
Chosen Option : **4**

**Q.32** In a certain code language, 'TRUST' is coded as '2120201918' and 'STOPE' is coded as '201916155'. How will 'CHATTER' be coded in that language?

**Ans** ✗ 1. 2021188536

✓ 2. 2020188531

✗ 3. 2120188531

✗ 4. 20201818531

Question Type : **MCQ**
Question ID : **387868856**
Option 1 ID : **3878683349**
Option 2 ID : **3878683350**
Option 3 ID : **3878683352**
Option 4 ID : **3878683351**
Status : **Answered**
Chosen Option : **4**

**Q.33** Six persons of a family K, L, M, N, O and P are seated together in a mall. N is the father of K and is the maternal grandfather of M. P is M's brother. L is the son-in-law of O's husband N. How is P related to O?

Ans ✖ 1. Maternal granddaughter

✖ 2. Son-in-law

✔ 3. Maternal grandson

✖ 4. Son

Question Type : **MCQ**
Question ID : **387868857**
Option 1 ID : **3878683355**
Option 2 ID : **3878683354**
Option 3 ID : **3878683356**
Option 4 ID : **3878683353**
Status : **Answered**
Chosen Option : **3**

**Q.34** Select the combination of letters that when sequentially placed in the blanks of the given series will create a repetitive pattern.

_ _ACCB_ _CCBA_ _CBA_ _ _

Ans ✖ 1. AABAACACC

✖ 2. BAACACAAC

✔ 3. BAAAACACC

✖ 4. BAAACCAAC

Question Type : **MCQ**
Question ID : **387868853**
Option 1 ID : **3878683340**
Option 2 ID : **3878683338**
Option 3 ID : **3878683339**
Option 4 ID : **3878683337**
Status : **Answered**
Chosen Option : **3**

**Q.35** Six friends are sitting together in the same line They all are facing North. Shreya is not sitting at the right end. Kabir is not sitting at any end. Shikhar is sitting immediate right to Tomar. Zafar is sitting between Yamini and Tomar. Kabir is sitting fourth to the left of Shikhar. Who is sitting at the extreme left end of the line?

Ans ✖ 1. Shikhar

✔ 2. Shreya

✖ 3. Yamini

✖ 4. Zafar

Question Type : **MCQ**
Question ID : **387868849**
Option 1 ID : **3878683323**
Option 2 ID : **3878683321**
Option 3 ID : **3878683322**
Option 4 ID : **3878683324**
Status : **Answered**

**Q.36** Eight friends Sakshi, Vandit, Ajay, Amrita, Iksha, Riya, Gayatri, and Vikas live in an eight-floored apartment. Only one person lives on one floor of the apartment. The floors of the apartment are numbered in such a manner that the lowest floor is numbered as first and the topmost floor is numbered as the Eighth floor. Ajay's floor is between Vandit's and Riya's floors. Amrita's floor is between Gayatri's and Iksha's floors. Riya's floor is immediately above Gayatri who lives on the fourth floor. Vikas's floor is on the first floor. Sakshi's apartment is on which floor?

**Ans** ✗ 1. Second

✓ 2. Eighth

✗ 3. Seventh

✗ 4. Third

Question Type : **MCQ**
Question ID : **387868850**
Option 1 ID : **3878683325**
Option 2 ID : **3878683327**
Option 3 ID : **3878683328**
Option 4 ID : **3878683326**
Status : **Answered**
Chosen Option : **2**

**Q.37** Refer to the following letter, number, symbol series and answer the question.
(Left) A F ! V & 1 D 9 % 6 K ! 2 R Z # 3 5 E * S @ 2 (Right)
How many such symbols are there which are immediately preceded by an letter and also immediately followed by a number?

**Ans** ✗ 1. One

✗ 2. Three

✗ 3. Four

✓ 4. Two

Question Type : **MCQ**
Question ID : **387868854**
Option 1 ID : **3878683341**
Option 2 ID : **3878683343**
Option 3 ID : **3878683344**
Option 4 ID : **3878683342**
Status : **Answered**
Chosen Option : **3**

**Q.38** Select the figure that will come next in the following series.



**Ans**

X 1. 

X 2. 

X 3. 

✔ 4. 
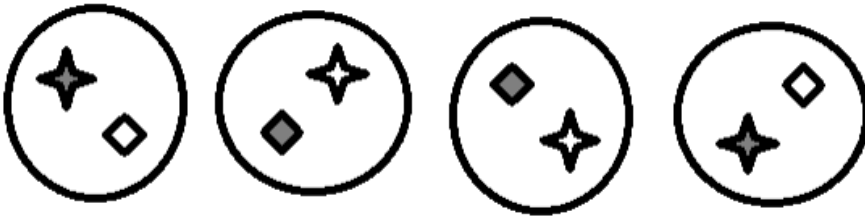
Question Type : **MCQ**
Question ID : **387868858**
Option 1 ID : **3878683358**
Option 2 ID : **3878683359**
Option 3 ID : **3878683357**
Option 4 ID : **3878683360**
Status : **Answered**
Chosen Option : **3**

**Q.39** Six members of a family Ram, Radhika, Sudama, Pavan, Pramod and Goutam, are travelling together. Each of them is of different Age. Goutam's age is not an even number. Pavan's age is less than only one person. Radhika is the oldest member in the family and her age is 78 years. Sudama's age is 54 years. Ram age is more than only Pramod and Goutam. The youngest family member's age is 14 years. Based on the above information, which of the following conclusion is true?

**Ans**  ✗ 1. Radhika < Pawan

✓ 2. Pavan > Ram

✗ 3. Ram > Radhika

✗ 4. Pramod > Sudama

**Q.40** दिलेली माहिती काळजीपूर्वक वाचा आणि त्याखालील प्रश्नांची उत्तरे द्या.

विपणन (मार्केटिंग) व्यवस्थापकाच्या भरतीसाठी, कंपनीने खालील निकष ठरवले आहेत.

उमेदवार:

    A. किमान ६०% गुणांसह पदवीधर असावा.

    B. मार्केटिंगमध्ये किमान ७०% गुणांसह एमबीए उत्तीर्ण असावा.

    C. लेखी परीक्षेत 50% किंवा त्यापेक्षा जास्त गुण मिळालेले असावेत.

    D. 22 जुलै 2022 रोजी वय 32 वर्षांपेक्षा जास्त नसावे.

    E. जर उमेदवाराचे वय 32 वर्षांपेक्षा जास्त असेल परंतु 35 वर्षांपेक्षा कमी असेल आणि तो/ती आर्थिकदृष्ट्या मागास प्रवर्गातील असेल, तर त्याला परिवीक्षेवर (प्रोबेशन) ठेवले जाऊ शकते.

वरील माहितीच्या आधारे, खालील उमेदवार भरती प्रक्रियेसाठी पात्र आहे की नाही हे ठरवा आणि दिलेल्या पर्यायांमधून तुमचे उत्तर निवडा. दिलेल्या माहितीशिवाय दुसरे काहीही गृहीत धरू नये.

सुजाता केंद्र सरकारने अधिसूचित केल्यानुसार आर्थिकदृष्ट्या मागासवर्गीय कुटुंबातील आहे. ती ७३% गुणांसह वाणिज्य शाखेची पदवीधर आहे. तिने एमबीए परीक्षेची सर्व सत्रे ७०% पेक्षा जास्त गुणांसह पूर्ण केली आहेत. तिने लेखी परीक्षेत ५५% गुण मिळवले आहेत. तिचा जन्म 20 जुलै 1990 रोजी झाला.

**Ans**
  ✗ 1. उमेदवाराला परिवीक्षेवर (प्रोबेशन) ठेवले जाईल.

  ✔ 2. माहिती पुरेशी नाही.

  ✗ 3. उमेदवाराची नियुक्ती केली जाणार नाही.

  ✗ 4. उमेदवाराची नियुक्ती केली जाईल.

| | |
|---|---|
| Question Type : | **MCQ** |
| Question ID : | **387868855** |
| Option 1 ID : | **3878683346** |
| Option 2 ID : | **3878683345** |
| Option 3 ID : | **3878683347** |
| Option 4 ID : | **3878683348** |
| Status : | **Answered** |
| Chosen Option : | **3** |

Section : **Civil Engineering**

**Q.41** The number of phases in a partially saturated soil mass is _____.

**Ans**
- ✔ 1. 3
- ✘ 2. 2
- ✘ 3. 1
- ✘ 4. 5

Question Type : **MCQ**
Question ID : **387868897**
Option 1 ID : **3878683515**
Option 2 ID : **3878683514**
Option 3 ID : **3878683513**
Option 4 ID : **3878683516**
Status : **Answered**
Chosen Option : **1**

**Q.42** As per IS 1343-2012, the minimum compressive strength of concrete shall NOT be less than _____ for pre-tensioned pre-stressed concrete members.

**Ans**
- ✘ 1. $15 \text{ N/mm}^2$
- ✘ 2. $30 \text{ N/mm}^2$
- ✔ 3. $40 \text{ N/mm}^2$
- ✘ 4. $20 \text{ N/mm}^2$

Question Type : **MCQ**
Question ID : **387868882**
Option 1 ID : **3878683454**
Option 2 ID : **3878683455**
Option 3 ID : **3878683456**
Option 4 ID : **3878683453**
Status : **Answered**
Chosen Option : **3**

**Q.43** The coefficient of discharge for a venturi meter ($C_d$) ranges from _____.

**Ans**
- ✘ 1. 0.60 to 0.67
- ✘ 2. 0.80 to 0.85
- ✘ 3. 0.45 to 0.60
- ✔ 4. 0.95 to 0.99

Question Type : **MCQ**
Question ID : **387868895**
Option 1 ID : **3878683506**
Option 2 ID : **3878683507**
Option 3 ID : **3878683505**
Option 4 ID : **3878683508**
Status : **Answered**
Chosen Option : **4**

**Q.44** Blue baby disease is caused by excess consumption of _____.

Ans ✔ 1. nitrates

✘ 2. chlorides

✘ 3. lead

✘ 4. fluorides

Question Type : **MCQ**
Question ID : **387868918**
Option 1 ID : **3878683600**
Option 2 ID : **3878683597**
Option 3 ID : **3878683599**
Option 4 ID : **3878683598**
Status : **Answered**
Chosen Option : **1**

**Q.45** The shape factor used for the triangular section in plastic analysis is _____.

Ans ✘ 1. 3.5
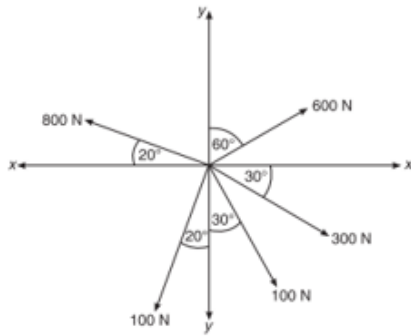
✘ 2. 1.7

✔ 3. 2.34

✘ 4. 1.27

Question Type : **MCQ**
Question ID : **387868875**
Option 1 ID : **3878683425**
Option 2 ID : **3878683426**
Option 3 ID : **3878683428**
Option 4 ID : **3878683427**
Status : **Answered**
Chosen Option : **3**

**Q.46** Calculate the moment of inertia of a rectangular lamina ABCD with respect to base AB, take base width AB=CD=2 cm and height AD=BC=3 cm.

Ans ✔ 1. $18 \text{ cm}^4$

✘ 2. $22 \text{ cm}^4$

✘ 3. $16 \text{ cm}^4$

✘ 4. $20 \text{ cm}^4$

Question Type : **MCQ**
Question ID : **387868900**
Option 1 ID : **3878683526**
Option 2 ID : **3878683528**
Option 3 ID : **3878683525**
Option 4 ID : **3878683527**
Status : **Answered**
Chosen Option : **1**

**Q.47** Identify the type of force system shown in the figure below.



Ans
  ✗ 1. Non-coplanar force system

  ✗ 2. Parallel force system

  ✓ 3. Concurrent force system

  ✗ 4. Collinear force system

Question Type : **MCQ**

Question ID : **387868862**

Option 1 ID : **3878683373**

Option 2 ID : **3878683375**

Option 3 ID : **3878683374**

Option 4 ID : **3878683376**

Status : **Answered**

Chosen Option : **3**

**Q.48** The natural water content, liquid limit and plastic limit of a clay sample are 22%, 44% and 19%, respectively. Calculate its consistency index.

Ans
  ✗ 1. 0.92

  ✗ 2. 0.78

  ✓ 3. 0.88

  ✗ 4. 0.72

Question Type : **MCQ**

Question ID : **387868898**

Option 1 ID : **3878683517**

Option 2 ID : **3878683519**

Option 3 ID : **3878683518**

Option 4 ID : **3878683520**

Status : **Answered**

Chosen Option : **3**

**Q.49** A simply supported beam of length 5 m is subjected to a uniformly distributed load throughout its length, with an intensity of 3 kN/m acting towards down. Calculate the value of shear force at a distance of 2.5 m from left end support.

Ans ✗ 1. 2.5 kN

✔ 2. 0 kN

✗ 3. 7.5 kN

✗ 4. 5 kN

Question Type : **MCQ**

Question ID : **387868864**

Option 1 ID : **3878683382**

Option 2 ID : **3878683381**

Option 3 ID : **3878683384**

Option 4 ID : **3878683383**

Status : **Answered**

Chosen Option : **2**

**Q.50** A fixed beam PQ is subjected to a uniformly varying load, with varying intensity from zero at one end (P) to W kN per unit length at the other end (Q). The ratio of fixed-end moments at P and Q is ____.

Ans ✗ 1. 2.5

✗ 2. 0.36

✔ 3. 0.67

✗ 4. 0.5

Question Type : **MCQ**

Question ID : **387868872**

Option 1 ID : **3878683415**

Option 2 ID : **3878683416**

Option 3 ID : **3878683414**

Option 4 ID : **3878683413**

Status : **Marked For Review**

Chosen Option : **3**

**Q.51** Which of the following ingredients of concrete reacts with water and attains binding ability?

Ans ✗ 1. Coarse aggregates

✗ 2. Chemical admixtures

✔ 3. Cement

✗ 4. Fine aggregates

Question Type : **MCQ**

Question ID : **387868859**

Option 1 ID : **3878683362**

Option 2 ID : **3878683364**

Option 3 ID : **3878683361**

Option 4 ID : **3878683363**

Status : **Answered**

Chosen Option : **3**

**Q.52** Distribution mains in a water supply system are designed for _____.

**Ans**
✗ 1. 75% of the average daily demand

✗ 2. the average daily demand

✔ 3. the maximum hourly demand on maximum day

✗ 4. the minimum hourly demand on minimum day

Question Type : **MCQ**
Question ID : **387868916**
Option 1 ID : **3878683590**
Option 2 ID : **3878683591**
Option 3 ID : **3878683592**
Option 4 ID : **3878683589**
Status : **Answered**
Chosen Option : **3**

**Q.53** A cantilever beam of span 'L' is subjected to a clockwise moment at the free end. What is the ratio of deflection to rotation at the free end?

**Ans**
✗ 1. 2L

✗ 2. 1.5L

✔ 3. $\frac{L}{2}$

✗ 4. L

Question Type : **MCQ**
Question ID : **387868866**
Option 1 ID : **3878683392**
Option 2 ID : **3878683391**
Option 3 ID : **3878683389**
Option 4 ID : **3878683390**
Status : **Marked For Review**
Chosen Option : **3**

**Q.54** Which of the below-mentioned statements with respect to a divide wall that separates weir from under sluices is/are correct?

**Statement A:** Divide walls are kept at right angles to the axis of the weir.

**Statement B:** It is an embankment constructed in the river at upstream of the weir.

**Ans**
✗ 1. Statement A is correct and Statement B is incorrect.

✗ 2. Statement B is correct and Statement A is incorrect.

✗ 3. Both the statements are incorrect.

✔ 4. Both the statements are correct.

Question Type : **MCQ**
Question ID : **387868891**
Option 1 ID : **3878683489**
Option 2 ID : **3878683490**
Option 3 ID : **3878683492**

**Q.55** The type of rocks which are formed by regular deposition of products of weathering on the pre-existing rocks is known as _____.

**Ans**
  ✔ 1. sedimentary rocks

  ✘ 2. igneous rocks

  ✘ 3. metamorphic rocks

  ✘ 4. volcanic rocks

> Question Type : **MCQ**
> Question ID : **387868860**
> Option 1 ID : **3878683366**
> Option 2 ID : **3878683365**
> Option 3 ID : **3878683367**
> Option 4 ID : **3878683368**
> Status : **Answered**
> Chosen Option : **1**

**Q.56** Which of the following compound composition is a Bogue's compound?

**Ans**
  ✔ 1. Di-calcium silicate

  ✘ 2. Tetra alumina ferrite

  ✘ 3. Di-calcium aluminate

  ✘ 4. Tricalcium ferrite

> Question Type : **MCQ**
> Question ID : **387868903**
> Option 1 ID : **3878683539**
> Option 2 ID : **3878683538**
> Option 3 ID : **3878683540**
> Option 4 ID : **3878683537**
> Status : **Answered**
> Chosen Option : **1**

**Q.57** _____ is the unit of measurement used for estimating the quantity of raft foundation concreting.

**Ans**
  ✔ 1. Cubic metres

  ✘ 2. Tonne

  ✘ 3. Square metres

  ✘ 4. Running metre

> Question Type : **MCQ**
> Question ID : **387868890**
> Option 1 ID : **3878683488**
> Option 2 ID : **3878683487**
> Option 3 ID : **3878683486**
> Option 4 ID : **3878683485**
> Status : **Answered**
> Chosen Option : **1**

**Q.58** A fund that is gradually accumulated and set aside to reconstruct the property after the expiry of its period of utility is known as:

**Ans**
✔ 1. sinking fund

✘ 2. scrap value

✘ 3. annuity fund

✘ 4. salvage value

Question Type : **MCQ**
Question ID : **387868889**
Option 1 ID : **3878683483**
Option 2 ID : **3878683482**
Option 3 ID : **3878683481**
Option 4 ID : **3878683484**
Status : **Marked For Review**
Chosen Option : **1**

**Q.59** A prismatic beam fixed at both the ends carries a uniformly distributed load. The ratio of the bending moment at mid-span to the bending moment at supports is _____.

**Ans**
✘ 1. 4.0

✔ 2. 0.5

✘ 3. 2.5

✘ 4. 1.0

Question Type : **MCQ**
Question ID : **387868865**
Option 1 ID : **3878683387**
Option 2 ID : **3878683385**
Option 3 ID : **3878683388**
Option 4 ID : **3878683386**
Status : **Answered**
Chosen Option : **2**

**Q.60** Queen post trusses are generally used for spans between _____.

**Ans**
✘ 1. 20 m and 24 m

✘ 2. 18 m and 26 m

✔ 3. 8 m and 12 m

✘ 4. 16 m and 22 m

Question Type : **MCQ**
Question ID : **387868877**
Option 1 ID : **3878683433**
Option 2 ID : **3878683434**
Option 3 ID : **3878683436**
Option 4 ID : **3878683435**
Status : **Answered**
Chosen Option : **3**

**Q.61** Which of the below-mentioned statements is/are correct?

**Statement A:** Slack time is an interval that occurs when there are activities that can be completed before the time when they are actually needed.

**Statement B:** Slack time is an interval that occurs when there is delay in the completion of activities compared to the scheduled time.

**Ans**

✘ 1. Both the statements are incorrect.

✘ 2. Both the statements are correct.

✔ 3. Statement A is correct and Statement B is incorrect.

✘ 4. Statement B is correct and Statement A is incorrect.

Question Type : **MCQ**
Question ID : **387868886**
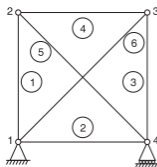Option 1 ID : **3878683472**
Option 2 ID : **3878683471**
Option 3 ID : **3878683469**
Option 4 ID : **3878683470**
Status : **Marked For Review**
Chosen Option : **2**

**Q.62** Identify the type of truss shown in the figure below, based on the degree of redundancy. Consider that truss is supported with a roller type at Joint 4 and a hinged type at Joint 1.



**Ans**

✘ 1. Non-rigid truss

✘ 2. Perfect truss

✘ 3. Deficient truss

✔ 4. Redundant truss

Question Type : **MCQ**
Question ID : **387868874**
Option 1 ID : **3878683424**
Option 2 ID : **3878683421**
Option 3 ID : **3878683422**
Option 4 ID : **3878683423**
Status : **Answered**
Chosen Option : **4**

**Q.63** The year's purchase of a property for 6% interest will be _____. Consider that the sinking fund coefficient is 4%.

Ans
- ✗ 1. 14
- ✗ 2. 20
- ✗ 3. 0.1
- ✔ 4. 10

Question Type : **MCQ**
Question ID : **387868888**
Option 1 ID : **3878683478**
Option 2 ID : **3878683477**
Option 3 ID : **3878683480**
Option 4 ID : **3878683479**
Status : **Answered**
Chosen Option : **4**

**Q.64** Calculate the lag distance for two-way traffic on a single-lane road if the design speed is 45 km/h, the coefficient of friction is 0.35 and the reaction time of the driver is 2.5 seconds.

Ans
- ✔ 1. 62.50 m
- ✗ 2. 65.40 m
- ✗ 3. 22.77 m
- ✗ 4. 31.275 m

Question Type : **MCQ**
Question ID : **387868904**
Option 1 ID : **3878683541**
Option 2 ID : **3878683542**
Option 3 ID : **3878683544**
Option 4 ID : **3878683543**
Status : **Answered**
Chosen Option : **4**

**Q.65** As per Meyerhof, the value of the bearing capacity factor for cohesion $N_c$ for soil is ____.

Ans
- ✗ 1. 7.50
- ✔ 2. 5.14
- ✗ 3. 5.70
- ✗ 4. 4.20

Question Type : **MCQ**
Question ID : **387868899**
Option 1 ID : **3878683522**
Option 2 ID : **3878683521**
Option 3 ID : **3878683524**
Option 4 ID : **3878683523**
Status : **Answered**
Chosen Option : **2**

**Q.66** Wind rose diagrams are used for the purpose of:

**Ans**
✔ 1. runway orientation

✘ 2. finding the size of hangars

✘ 3. runway capacity estimation

✘ 4. finding taxiway length

Question Type : **MCQ**
Question ID : **387868906**
Option 1 ID : **3878683549**
Option 2 ID : **3878683552**
Option 3 ID : **3878683550**
Option 4 ID : **3878683551**
Status : **Answered**
Chosen Option : **1**

**Q.67** As per ICAO, the slope of the transitional surface perpendicular to the centre line of the runway shall be _____.

**Ans**
✘ 1. 1 in 5

✘ 2. 1 in 2

✔ 3. 1 in 7

✘ 4. 1 in 3

Question Type : **MCQ**
Question ID : **387868907**
Option 1 ID : **3878683555**
Option 2 ID : **3878683553**
Option 3 ID : **3878683556**
Option 4 ID : **3878683554**
Status : **Marked For Review**
Chosen Option : **1**

**Q.68** The process by which the clay is made loose and any ingredient to be added to it is spread out at top, turning it up and down in vertical direction, is known as _____.

**Ans**
✘ 1. tampering

✔ 2. blending

✘ 3. weathering

✘ 4. stirring

Question Type : **MCQ**
Question ID : **387868861**
Option 1 ID : **3878683372**
Option 2 ID : **3878683371**
Option 3 ID : **3878683370**
Option 4 ID : **3878683369**
Status : **Answered**
Chosen Option : **2**

**Q.69** As per IS 875 part 2, the recommended imposed load on staircases in residential buildings is _____.

**Ans**

✓ 1. $3.0 \ kN/m^2$

✗ 2. $1.2 \ kN/m^2$

✗ 3. $4.0 \ kN/m^2$

✗ 4. $2.0 \ kN/m^2$

Question Type : **MCQ**
Question ID : **387868881**
Option 1 ID : **3878683452**
Option 2 ID : **3878683449**
Option 3 ID : **3878683451**
Option 4 ID : **3878683450**
Status : **Answered**
Chosen Option : **1**

**Q.70** The Beaufort scale is used to determine:

**Ans**

✗ 1. the direction of wind

✗ 2. both the direction of wind and the wind speed

✓ 3. the wind speed

✗ 4. the sound velocity

Question Type : **MCQ**
Question ID : **387868908**
Option 1 ID : **3878683557**
Option 2 ID : **3878683559**
Option 3 ID : **3878683558**
Option 4 ID : **3878683560**
Status : **Marked For Review**
Chosen Option : **2**

**Q.71** An oxidation pond is a _____ system.

**Ans**

✗ 1. anaerobic suspended growth

✗ 2. anaerobic attached growth

✗ 3. aerobic attached growth

✓ 4. aerobic suspended growth

Question Type : **MCQ**
Question ID : **387868912**
Option 1 ID : **3878683576**
Option 2 ID : **3878683575**
Option 3 ID : **3878683573**
Option 4 ID : **3878683574**
Status : **Marked For Review**
Chosen Option : **3**

**Q.72** Webs shall be checked for shear buckling when _____, where 'b' is the width of the element, 't' is the thickness of the element and 'd' is the depth of the web.

**Ans**

✗ 1. $b/t < 65\varepsilon$

✗ 2. $d/t < 67\varepsilon$

✓ 3. $d/t > 67\varepsilon$

✗ 4. $b/t > 65\varepsilon$

Question Type : **MCQ**
Question ID : **387868878**
Option 1 ID : **3878683439**
Option 2 ID : **3878683438**
Option 3 ID : **3878683437**
Option 4 ID : **3878683440**
Status : **Answered**
Chosen Option : **3**

**Q.73** A rigid-jointed plane frame is stable and statically determinate if _____, where 'm' is the number of members in the stable frame, 'j' is the number of joints and 'r' is the number of reactions.

**Ans**

✓ 1. $(3m + r) = 3j$

✗ 2. $(m + r) = 5j$

✗ 3. $(m - r) = 3j$

✗ 4. $(m + 2r) = 2j$

Question Type : **MCQ**
Question ID : **387868871**
Option 1 ID : **3878683412**
Option 2 ID : **3878683411**
Option 3 ID : **3878683410**
Option 4 ID : **3878683409**
Status : **Answered**
Chosen Option : **1**

**Q.74** Which of the below-mentioned statements is/are correct?

**Statement A:** Dummy activity does not consume any material.

**Statement B:** Dummy activity consumes only time.

Ans
✔ 1. Statement A is correct and Statement B is incorrect.
✗ 2. Statement B is correct and Statement A is incorrect.
✗ 3. Both the statements are correct.
✗ 4. Both the statements are incorrect.

**Q.75** What is the value of the distribution factor for the member BA shown in the below figure used to determine the unknowns using the moment distribution method, taking the value of EI as constant throughout the length of the beam from A to D?
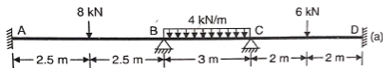


Ans
✔ 1. 3/8
✗ 2. 5/8
✗ 3. 5/9
✗ 4. 3/9

**Q.76** The number of burnt-clay bricks required for a brick masonry of 5 m$^3$ volume will be _____.

Ans
- ✗ 1. 2750
- ✗ 2. 2250
- ✓ 3. 2500
- ✗ 4. 5000

Question Type : **MCQ**
Question ID : **387868887**
Option 1 ID : **3878683474**
Option 2 ID : **3878683475**
Option 3 ID : **3878683473**
Option 4 ID : **3878683476**
Status : **Answered**
Chosen Option : **3**

**Q.77** As per ICAO, the maximum effective gradient for A and B types of airports is ____.

Ans
- ✗ 1. 5%
- ✗ 2. 2%
- ✓ 3. 1%
- ✗ 4. 10%

Question Type : **MCQ**
Question ID : **387868905**
Option 1 ID : **3878683547**
Option 2 ID : **3878683546**
Option 3 ID : **3878683545**
Option 4 ID : **3878683548**
Status : **Marked For Review**
Chosen Option : **2**

**Q.78** Which of the following methods of structural analysis is NOT a force method?

Ans
- ✗ 1. Flexibility matrix method
- ✗ 2. Column analogy method
- ✗ 3. Theorem of least work method
- ✓ 4. Kani's method

Question Type : **MCQ**
Question ID : **387868869**
Option 1 ID : **3878683402**
Option 2 ID : **3878683404**
Option 3 ID : **3878683403**
Option 4 ID : **3878683401**
Status : **Answered**
Chosen Option : **4**

**Q.79** Froude's number is the ratio of _____.

**Ans**

✗ 1. inertia force to pressure force

✗ 2. inertia force to viscous force

✗ 3. inertia force to elastic force

✓ 4. inertia force to gravity force

Question Type : **MCQ**
Question ID : **387868893**
Option 1 ID : **3878683498**
Option 2 ID : **3878683500**
Option 3 ID : **3878683499**
Option 4 ID : **3878683497**
Status : **Answered**
Chosen Option : **4**

**Q.80** Jackson Turbidity Unit and Formazine Turbidity Unit are based on the principle of ____, respectively.

**Ans**

✗ 1. absorbing and absorbing

✗ 2. scattering and scattering

✗ 3. scattering and absorbing

✓ 4. absorbing and scattering

Question Type : **MCQ**
Question ID : **387868917**
Option 1 ID : **3878683596**
Option 2 ID : **3878683595**
Option 3 ID : **3878683594**
Option 4 ID : **3878683593**
Status : **Marked For Review**
Chosen Option : **3**

**Q.81** The radial component of velocity in a free vortex motion _____.

**Ans**

✗ 1. will vary

✗ 2. is very high

✓ 3. is zero

✗ 4. is moderate

Question Type : **MCQ**
Question ID : **387868896**
Option 1 ID : **3878683512**
Option 2 ID : **3878683510**
Option 3 ID : **3878683509**
Option 4 ID : **3878683511**
Status : **Answered**
Chosen Option : **3**

**Q.82** In the design of super-elevation for mixed traffic conditions, the speed is reduced by _____.

**Ans**
  ✗ 1. 40%
  ✓ 2. 25%
  ✗ 3. 30%
  ✗ 4. 10%

Question Type : **MCQ**
Question ID : **387868902**
Option 1 ID : **3878683534**
Option 2 ID : **3878683535**
Option 3 ID : **3878683533**
Option 4 ID : **3878683536**
Status : **Answered**
Chosen Option : **2**

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**Q.83** Which of the following beam types has the maximum number of redundancies?

**Ans**
  ✓ 1. Fixed-support beam
  ✗ 2. Three-hinged arch
  ✗ 3. Propped cantilever beam
  ✗ 4. Two-hinged arch

Question Type : **MCQ**
Question ID : **387868870**
Option 1 ID : **3878683408**
Option 2 ID : **3878683407**
Option 3 ID : **3878683405**
Option 4 ID : **3878683406**
Status : **Marked For Review**
Chosen Option : **1**

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**Q.84** A sewage sample containing fully oxidised organic matter consists of nitrogen in the form of _____.

**Ans**
  ✗ 1. ammonia oxide
  ✗ 2. methane
  ✓ 3. nitrates
  ✗ 4. thiocyanate

Question Type : **MCQ**
Question ID : **387868914**
Option 1 ID : **3878683583**
Option 2 ID : **3878683581**
Option 3 ID : **3878683582**
Option 4 ID : **3878683584**
Status : **Answered**
Chosen Option : **3**

**Q.85** A per the Noise Pollution Rule 2000 of India, the day-time noise limit for commercial areas (expressed in dB) is _____.

**Ans**
- ✗ 1. 75
- ✗ 2. 40
- ✗ 3. 55
- ✔ 4. 65

Question Type : **MCQ**
Question ID : **387868911**
Option 1 ID : **3878683572**
Option 2 ID : **3878683569**
Option 3 ID : **3878683570**
Option 4 ID : **3878683571**
Status : **Marked For Review**
Chosen Option : **4**

**Q.86** Which of the below-mentioned statements with respect to shear stress distribution in T sections is/are correct?

**Statement A:** The shear stress developed in a T section will be always maximum at the junction of the flange and the web.

**Statement B:** The shear stress developed in a T section will be maximum at its neutral axis.

**Ans**
- ✗ 1. Statement A is correct and Statement B is incorrect.
- ✔ 2. Statement B is correct and Statement A is incorrect.
- ✗ 3. Both the statements are incorrect.
- ✗ 4. Both the statements are correct.

Question Type : **MCQ**
Question ID : **387868868**
Option 1 ID : **3878683397**
Option 2 ID : **3878683398**
Option 3 ID : **3878683400**
Option 4 ID : **3878683399**
Status : **Answered**
Chosen Option : **2**

**Q.87** As per IS 10500-2012, the acceptable limit of pH recommended for drinking water is _____.

**Ans**
- ✗ 1. 3.5–7.5
- ✗ 2. 9–11
- ✗ 3. 5.5–7.5
- ✔ 4. 6.5–8.5

Question Type : **MCQ**
Question ID : **387868915**
Option 1 ID : **3878683586**
Option 2 ID : **3878683588**
Option 3 ID : **3878683585**
Option 4 ID : **3878683587**
Status : **Answered**
Chosen Option : **4**

**Q.88** The maximum design gradient provided along the length of the road is termed as '_____'.

**Ans**
✔ 1. Ruling gradient
✘ 2. Exceptional gradient
✘ 3. Limiting gradient
✘ 4. Momentum gradient

Question Type : **MCQ**
Question ID : **387868901**
Option 1 ID : **3878683529**
Option 2 ID : **3878683531**
Option 3 ID : **3878683530**
Option 4 ID : **3878683532**
Status : **Answered**
Chosen Option : **1**

**Q.89** Torsional failure of ductile material occurs at:

**Ans**
✘ 1. 45° to the transverse plane
✘ 2. any random plane
✘ 3. 60° to the transverse plane
✔ 4. the transverse plane

Question Type : **MCQ**
Question ID : **387868867**
Option 1 ID : **3878683394**
Option 2 ID : **3878683393**
Option 3 ID : **3878683395**
Option 4 ID : **3878683396**
Status : **Marked For Review**
Chosen Option : **4**

**Q.90** A soil sample has a void ratio of 0.4, calculate its porosity.

**Ans**
✘ 1. 18.97%
✘ 2. 40%
✔ 3. 28.57%
✘ 4. 35.65%

Question Type : **MCQ**
Question ID : **387868880**
Option 1 ID : **3878683445**
Option 2 ID : **3878683448**
Option 3 ID : **3878683446**
Option 4 ID : **3878683447**
Status : **Answered**
Chosen Option : **3**

**Q.91** Which of the following is a secondary air pollutant?

**Ans**
- ✗ 1. CO
- ✗ 2. $CO_2$
- ✔ 3. Ozone
- ✗ 4. $NO_2$

Question Type : **MCQ**
Question ID : **387868909**
Option 1 ID : **3878683564**
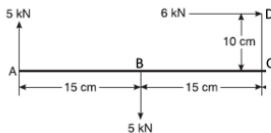Option 2 ID : **3878683562**
Option 3 ID : **3878683563**
Option 4 ID : **3878683561**
Status : **Marked For Review**
Chosen Option : **3**

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**Q.92** A bracket ABCD is subjected to 3 forces as shown in the figure below. Calculate the shortest distance measured from point 'B' to the line of action of resultant force for the given force system, using Varignon's theorem.



**Ans**
- ✗ 1. 28.5 cm
- ✔ 2. 22.5 cm
- ✗ 3. 15 cm
- ✗ 4. 10 cm

Question Type : **MCQ**
Question ID : **387868863**
Option 1 ID : **3878683380**
Option 2 ID : **3878683378**
Option 3 ID : **3878683379**
Option 4 ID : **3878683377**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

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**Q.93** Which of the following methods is used to forecast the population of a young and rapidly developing city?

**Ans**
- ✔ 1. Geometric increase method
- ✗ 2. Incremental increase method
- ✗ 3. Arithmetic increase method
- ✗ 4. Subtractive decrease method

Question Type : **MCQ**
Question ID : **387868913**
Option 1 ID : **3878683578**
Option 2 ID : **3878683579**

Status : **Marked For Review**

**Q.94** Toothpaste is an example of _____.

**Ans**

✗ 1. thixotropic fluid

✓ 2. Bingham plastic fluid

✗ 3. rheopectic fluid

✗ 4. dilatant fluid

Question Type : **MCQ**
Question ID : **387868894**
Option 1 ID : **3878683501**
Option 2 ID : **3878683504**
Option 3 ID : **3878683503**
Option 4 ID : **3878683502**
Status : **Answered**
Chosen Option : **2**

**Q.95** In a circular pipe flow, the flow is said to be turbulent flow if the Reynolds number is _____.

**Ans**

✗ 1. greater than 1500

✓ 2. greater than 4000

✗ 3. less than 250

✗ 4. lying between 500 and 1500

Question Type : **MCQ**
Question ID : **387868885**
Option 1 ID : **3878683467**
Option 2 ID : **3878683466**
Option 3 ID : **3878683465**
Option 4 ID : **3878683468**
Status : **Answered**
Chosen Option : **2**

**Q.96** The percentage of nitrogen gas in the air is _____.

**Ans**

✗ 1. 55%

✓ 2. 78%

✗ 3. 25%

✗ 4. 3%

Question Type : **MCQ**
Question ID : **387868910**
Option 1 ID : **3878683567**
Option 2 ID : **3878683568**
Option 3 ID : **3878683566**
Option 4 ID : **3878683565**
Status : **Marked For Review**
Chosen Option : **1**

**Q.97** A steel rod of 20 mm diameter is used as a tie member subjected to reversal of stress due to wind. The maximum permissible length of the member shall be _____. Consider that the minimum radius of gyration of the said rod is 5 mm.

**Ans**
✗ 1. 2600 mm
✗ 2. 1450 mm
✗ 3. 2250 mm
✓ 4. 1750 mm

Question Type : **MCQ**
Question ID : **387868876**
Option 1 ID : **3878683432**
Option 2 ID : **3878683430**
Option 3 ID : **3878683431**
Option 4 ID : **3878683429**
Status : **Answered**
Chosen Option : **4**

**Q.98** As per IS 456-2000, for simply supported beams up to a span of 10 m, the basic value of span to effective depth ratio is _____.

**Ans**
✗ 1. 7
✗ 2. 28
✗ 3. 15
✓ 4. 20

Question Type : **MCQ**
Question ID : **387868879**
Option 1 ID : **3878683441**
Option 2 ID : **3878683444**
Option 3 ID : **3878683442**
Option 4 ID : **3878683443**
Status : **Answered**
Chosen Option : **4**

**Q.99** Which of the following is the equation of Lacey's normal regime scour depth, used for finding scour depth 'D' of a river during floods? Here, 'Q' is the design flood discharge and 'f' is the silt factor.

**Ans**
✓ 1. $D = 0.473 \, (Q/f)^{1/3}$

✗ 2. $D = 1.57 \, (Q/f)^{1/4}$

✗ 3. $D = 5.65 \, (Q/f)$

✗ 4. $D = 2.83 \, (Q/f)^{1/2}$

Question Type : **MCQ**
Question ID : **387868892**
Option 1 ID : **3878683495**
Option 2 ID : **3878683496**
Option 3 ID : **3878683493**
Option 4 ID : **3878683494**
Status : **Answered**
Chosen Option : **1**

**Q.100** If the optimistic time, most likely time and pessimistic time for an activity are 7, 8 and 10, respectively, then the standard deviation is equal to _____.

Ans  ✗ 1. 0.2

✗ 2. 0.8

✗ 3. 0.3

✓ 4. 0.5

Question Type : **MCQ**

Question ID : **387868884**

Option 1 ID : **3878683461**

Option 2 ID : **3878683464**

Option 3 ID : **3878683463**

Option 4 ID : **3878683462**

Status : **Answered**

Chosen Option : **4**