



# HPCL Engineer

Previous Year Paper (Civil) 23 Dec, 2023



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## हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड राजस्टडं ऑफिस : 17, जमजेदनी टाटा रोड, मुंबई - 400 020.

### HINDUSTAN PETROLEUM CORPORATION LIMITED

REGISTERED OFFICE: 17, JAMSHEDJI TATA ROAD, MUMBAI - 400 020

Participant ID	
Participant Name	
Test Center Name	
Test Date	23/12/2023
Test Time	2:00 PM - 4:30 PM
Subject	Civil Engineer

Section	: English	Language

 $\ensuremath{\mathsf{Q.1}}$   $\ensuremath{\mathsf{Fill}}$  in the blank with the correct word from the below options.

Without water \_\_\_\_ animal can survive. In desert regions the greatest threat to life is drying up.

Ans

X 1. all

X 2. none

X 3. each

√ 4. no

 ${\tt Question~ID:630680507270}$ Option 1 ID: 6306801982537 Option 2 ID: 6306801982539 Option 3 ID: 6306801982540

Option 4 ID: 6306801982538 Status: Answered

Chosen Option: 4

Q.2 Choose the most appropriate one-word substitution for the below word.

"A story in which anima<mark>ls o</mark>r objects spe<mark>ak</mark> and give wholesome m<mark>oral lesson</mark>"

Ans

✓ 1. Fable

X 2. Legend

X 3. Anthology

🟋 4. Pamphlet

Question ID: 630680507264

Option 1 ID: 6306801982516

Option 2 ID: 6306801982514

Option 3 ID: 6306801982515

Option 4 ID: 6306801982513

Status: Answered

Chosen Option :  ${\bf 1}$ 





Q.3 Select the most appropriate SYNONYM of the given word below.

Shove

Ans 💜 1. Push

**×** 2. Flow

X 3. Comfort

X 4. Relaxed

Question ID: 630680507269
Option 1 ID: 6306801982534
Option 2 ID: 6306801982533
Option 3 ID: 6306801982536

Option 3 ID : 6306801982536 Option 4 ID : 6306801982535 Status : Not Answered

Chosen Option: --

Q.4 In the following question a part of the statement is given in brackets. You are required to replace the text with correct Idioms given in the options.

If you have done something wrong, you have to (accept unpleasant consequences of your actions). There's no escaping out of it.

Ans X 1. hold your horses

2. face the music

X 3. jump the gun

X 4. hit the book

Question ID: 630680507267

Option 1 ID: 6306801982525 Option 2 ID: 6306801982528

Option 3 ID : 6306801982526

Option 4 ID: **6306801982527** Status: **Answered** 

Chosen Option: 1

Q.5 In the following question a part of the statement is given in brackets. You are required to replace the text with correct Idioms given in the options.

I was very tensed before my exam, but I was (extremely happy) when I finished my exam.

Ans X 1. cut corners

X 2. left out in the cold

3. on cloud nine

X 4. blow hot and cold

Question ID: 630680507266

Option 1 ID: **6306801982523** Option 2 ID: **6306801982521** 

Option 3 ID : **6306801982524** 

Option 4 ID: 6306801982522

Status : **Answered** 





Q.6 Select the most appropriate adjective from the given option to fill in the blanks for the given sentence.

They ate some \_\_\_\_ food.

Ans

1. delicious

X 2. deliciously

X 3. ideal

X 4. fantastically

Question ID: 630680507261
Option 1 ID: 6306801982503
Option 2 ID: 6306801982501
Option 2 ID: 6306801982501

Option 3 ID: 6306801982504 Option 4 ID: 6306801982502

Status: Answered

Chosen Option: 1

Q.7 Choose the most logical order of the sentences from among the four given choices to construct a coherent paragraph.

Climate change is an unprecedented global crisis driven by human activities, primarily greenhouse gas emissions.

 $\hat{\mathbf{A}}$ ) Urgent action is needed to mitigate its effects and build resilience for a sustainable future.

B) Its far-reaching impacts threaten ecosystems, economies, and livelihoods worldwide.

C) It necessitates international cooperation, innovative policies, and sustainable practices to preserve our planet for future generations. Taking up this challenge is not a choice but an ethical imperative for humanity's survival.

D) Addressing climate change demands immediate and comprehensive action at the global level.

Ans

X 1. ADCB

X 2. CDAB

X 3. ABDC

4. BADC

Question ID: 630680507263

Option 1 ID: 6306801982509

Option 2 ID: 6306801982512

Option 3 ID: 6306801982510

Option 4 ID: 6306801982511

Status: Answered

Chosen Option: 3

Q.8 Choose the most appropriate one-word substitution for the below word.

"something that is no longer produced or used; out of date"

Ans

X 1. Operative

X 2. Recent

X 3. Secret

4. Obsolete

Question ID: 630680507265

Option 1 ID: 6306801982519 Option 2 ID: 6306801982517

Option 3 ID : **6306801982520** Option 4 ID : **6306801982518** 

Status : **Answered** 





 ${\bf Q.9} \quad {\bf Select \ the \ most \ appropriate \ SYNONYM \ of \ the \ given \ word \ below.}$ 

Influx

Ans

X 1. Affluent

X 2. Abate

X 3. sack

🎻 4. Rush

Question ID: 630680507268

Option 1 ID: 6306801982530

Option 2 ID: 6306801982532 Option 3 ID: 6306801982531

Option 4 ID: 6306801982529

Status: Answered

Chosen Option :  ${\bf 2}$ 

 $Q.10\,$  Fill in the blank with the correct word from the below options.

One of nature's masterpieces among creatures equipped to deal with desert life is the hardy camel. Stories range the desert lands far and wide about \_\_\_\_\_ endurance feats by camels.

Ans

X 1. total

X 2. popular

X 3. little

🥒 4. remarkable

Question ID: 630680507272

Option 1 ID: 6306801982546

Option 2 ID: 6306801982545

Option 3 ID: 6306801982547

Option 4 ID: 6306801982548

Q.11 Select the most appropriate adjective from the given option to fill in the blanks for the given sentence.

That is an \_\_\_

Ans

X 1. interested

X 2. identical

X 3. ideally

4. interesting

Status: AnsweredChosen Option: 2

Question ID: 630680507260 Option 1 ID: 6306801982497

Option 2 ID: 6306801982498 Option 3 ID: 6306801982499

Option 4 ID: 6306801982500 Status: Answered





Q.12 Choose the most logical order of the sentences from among the four given choices to construct a coherent paragraph.

The pursuit of scientific knowledge has played a significant role in shaping our understanding of the world around us.

- A) The notion that science is solely responsible for answering life's most profound questions is a reductionist one.
- B) Science is but one way of studying the universe, and while it has made significant contributions to our understanding of the world, it is not the only approach.
- C) Yet, the notion that science can provide a final answer to all of life's questions is a misquided one.
- D) While scientific inquiry has contributed immensely to our understanding of the universe, it is only one of many approaches to comprehending the complexities of existence.

Ans

√ 1. CDAB

X 2. DCAB

X 3. ABCD

🗶 4. BCAD

Question ID: 630680507262

Option 1 ID: 6306801982506

Option 2 ID: 6306801982505

Option 3 ID: 6306801982508

Option 4 ID: 6306801982507

Status: Not Answered

Chosen Option: --

Q.13 Fill in the blank with the correct word from the below options.

One of nature's masterpieces among creatures equipped to \_\_\_\_\_ with desert life is the hardy camel.

Δno

X 1. attain

2. cope

X 3. resist

🗙 4. assist

Question ID: 630680507271

Option 1 ID: 6306801982544

Option 2 ID: 6306801982543

Option 3 ID : 6306801982541

Option 4 ID: 6306801982542

Status : **Answered** 





Choose the most appropriate one-word substitution for the below word.

The practice of damming rivers to create reservoirs has a long history, with examples dating back to Roman times. Over the years, the reasons for damming rivers have evolved, with three main purposes being human consumption, irrigation, and industrial use. However, while damming rivers provides many benefits, it also causes significant problems, especially in underdeveloped countries.

One of the primary advantages of damming rivers is to provide a reliable water source during droughts. Rainfall is never uniform enough to provide a steady flow of water, but reservoirs can hold water for extended periods, which can be used during dry weather. Dams also help control the flow of floodwater in mountainous areas, which can destroy crops, homes, and animal and human life. Dams can also retain large quantities of water for controlled use, working from sea to river and vice versa.

Another significant advantage of damming rivers is the production of hydroelectric power. By channeling water through conduits and using it as mechanical power for turbines, dams can produce vast amounts of energy. The reservoir water is also used in nuclear power stations for cooling and other purposes, with the water being returned to the river or sea afterward. Dams can also provide a constant depth for rivers, making them navigable by large vessels and benefiting a country's communication system.

On the downside, damming a river can cause significant problems. A great area of land, with its trees, flora and fauna, farms, and houses, has to be inundated. Neither the residents who have to resettle elsewhere nor environmentalists appreciate this. The problem is more acute when the countryside being spoilt is environmentally unique. Creating an artificial lake inevitably changes the character of a large area, with farmland destroyed, and natural scenery despoiled, in some people's opinion. People also have to move, which can be inconvenient.

SubQuestion No:14

Q.14 Select the most appropriate SYNONYM of the given word below.

#### Re liable

Ans

🟋 1. False

X 2. Disputed

X 3. Uncertain

4. Dependable

Question ID: 630680507276

Option 1 ID: 6306801982558

Option 2 ID: 6306801982559 Option 3 ID: 6306801982557

Option 4 ID : 6306801982560

Status : Answered





Choose the most appropriate one-word substitution for the below word.

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SubQuestion No:15

Q.15 Identify the suitable title for the passage.

Ans

✓ 1. The Pros and Cons of Damming Rivers for Human Use

X 2. Floods and its issues

X 3. Dams- wastage of money

X 4. Need to create more reservoirs

Question ID: 630680507274 Option 1 ID: 6306801982551

Option 2 ID : **6306801982550** 

Option 3 ID: 6306801982552 Option 4 ID: 6306801982549

Status : Answered





Choose the most appropriate one-word substitution for the below word.

The practice of damming rivers to create reservoirs has a long history, with examples dating back to Roman times. Over the years, the reasons for damming rivers have evolved, with three main purposes being human consumption, irrigation, and industrial use. However, while damming rivers provides many benefits, it also causes significant problems, especially in underdeveloped countries.

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SubQuestion No:16

Q.16 Select the most appropriate SYNONYM of the given word below.

#### **Inevitably**

Ans

✓ 1. Unavoidable

X 2. Guiltless

X 3. Steady

X 4. Avertable

Question ID: **630680507277** Option 1 ID: **6306801982562** 

Option 2 ID : 6306801982563 Option 3 ID : 6306801982561

Option 4 ID : 6306801982564 Status : Answered





Choose the most appropriate one-word substitution for the below word.

The practice of damming rivers to create reservoirs has a long history, with examples dating back to Roman times. Over the years, the reasons for damming rivers have evolved, with three main purposes being human consumption, irrigation, and industrial use. However, while damming rivers provides many benefits, it also causes significant problems, especially in underdeveloped countries.

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SubQuestion No: 17

Q.17 Identify the central theme of the passage.

2. It talks about the advantages and disadvantages of creating dams to prevent flood and other natural calamities.

X 3. Dam's creation does not have any disadvantages at all; it is being created for the betterment of human beings only.

X 4. It talks about the issues caused by dams to the navigation of large vessels and thus affecting country's communication system.

 ${\tt Question~ID:630680507275}$ 

Option 1 ID: 6306801982555 Option 2 ID: 6306801982556 Option 3 ID: 6306801982554

Option 4 ID: 6306801982553

Status : Answered

Chosen Option: 2

Section: Quantitative Aptitude

Q.1 The difference between simple interest and compound on Rs. 1400 for one year at 10% per annum reckoned half-yearly

Ans

X 1. Rs. 5

√ 2. Rs. 3.5

X 3. Rs. 2.75

X 4. Rs. 4

Question ID: 630680507607

Option 1 ID: 6306801983872

Option 2 ID: 6306801983869

Option 3 ID: 6306801983871 Option 4 ID: 6306801983870

Status : Not Answered

Chosen Option : --



2x+3y = 38 and  $\frac{x+y}{y} = \frac{15}{8}$ , then find the value of 6x + 7y.

Ans × 1. 102

X 2. 65

**√** 3. **98** 

X 4. 78

Question ID: 630680507613

Option 1 ID: 6306801983893

Option 2 ID: 6306801983896

Option 3 ID: 6306801983894

Option 4 ID: 6306801983895

Status: Answered

Chosen Option: 3

A pair of linear equations which has a unique solution x = 4, y = -5 is

$$\times$$
 1.  $x + y = -1$ ;  $3x - 4y = -5$ 

$$\times$$
 2.  $2x - y = 1$ ;  $3x + 2y = 3$ 

$$\checkmark$$
 3.  $2x + 4y = -12$ ;  $4x + 3y = 1$ 

$$\times$$
 4.  $x - 4y - 14 = 0$ ;  $5x - y - 13 = 0$ 

Question ID: 630680507626

Option 1 ID: 6306801983945

Option 2 ID: 6306801983947

Option 3 ID: 6306801983946

Option 4 ID: 6306801983948

Status: Answered

Chosen Option: 3

If the value of  $\theta + \varphi = \frac{\pi}{2}$ , and cosec  $\theta = 2$ , what will be the value of  $\sin \varphi$ ?

$$\times$$
 1.  $\frac{2}{\sqrt{3}}$ 

$$\checkmark$$
 2.  $\frac{\sqrt{3}}{2}$ 

Question ID: 630680507637

Option 1 ID: 6306801983992

Option 2 ID: 6306801983990

Option 3 ID: 6306801983989

Option 4 ID: 6306801983991

Status: Answered



Q.5 The table given below shows the selling price and cost price of five different articles

Article	Selling Price	Cost Price
Grinder	2500	2800
Iron	1800	1600
Lamp	1200	900
Induction	2000	2400
Fan	800	480

Find the gain percentage of Fan.

Ans

**✓** 1. 66.67%

X 2. 56.56%

**X** 3. 70%

X 4. 60 %

Question ID: 630680507609

Option 1 ID : **6306801983879** Option 2 ID : **6306801983877** Option 3 ID : **6306801983880** 

Option 4 ID : 6306801983878

Status: Answered

Chosen Option: 1

Q.6 If 3, 9, and 27 are in proportion, what is the fourth proportional?

Ans >

X 1. 134

**√** 2. **81** 

**X** 3. 99

**X** 4. 66

Question ID: 630680507620

Option 1 ID: 6306801983924

Option 2 ID: 6306801983922

Option 3 ID: 6306801983923

Option 4 ID: 6306801983921

Status : Answered

Chosen Option : 2

<sup>Q.7</sup> What is the value of  $2^5 \times 2^5 \times 2^{100}$ .

Ans

X 1. 2<sup>250</sup>

× 2. 225000

**×** 3. 2<sup>5500</sup>

√ 4. 2<sup>110</sup>

Question ID: 630680507611 Option 1 ID: 6306801983887

Option 2 ID: 6306801983886

Option 3 ID: 6306801983885

Option 4 ID: 6306801983888

Status : **Answered** 

Chosen Option :  ${\bf 4}$ 



Simplify the expression 5+2 ×  $(9-4)^2 \div 5$ .

Ans

√ 1. 15

X 2. 12

**X** 3. 11

**X** 4. **7** 

Question ID: 630680507612

Option 1 ID: 6306801983889

Option 2 ID: 6306801983890

Option 3 ID: 6306801983891

Option 4 ID: 6306801983892

Status: Answered

Chosen Option: 1

Two pipes A & B can fill a tank in 8 min & 12 min respectively. Both the pipes are opened together but after 3 min, pipe Q.9 A is turned off. What is the total time required to fill the tank

Ans

**√**1. **4.5** 

**X** 2. 5

**X** 3. **4** 

X 4. 3.5

Question ID: 630680507622

Option 1 ID: 6306801983931

Option 2 ID: 6306801983932

Option 3 ID: 6306801983930

Option 4 ID: 6306801983929

Status: Answered

Chosen Option: 1

Q.10 If  $\frac{1}{3}$  is a root of the quadratic equation  $x^2 - mx - \frac{10}{9} = 0$ , then value of m is:

Ans × 1. 5

X 2. 2

**X** 3. 4

Question ID: 630680507629

Option 1 ID: 6306801983960

Option 2 ID: 6306801983957

Option 3 ID: 6306801983959

Option 4 ID: 6306801983958

Status: Answered



If  $\tan \theta / \cot \theta = 3$ , what will be the value of  $\sin \theta + \cos \theta$ ?

Ans

$$\times$$
 1.  $\frac{\sqrt{3}}{2}$ 

$$\checkmark$$
 2.  $\frac{\left(1+\sqrt{3}\right)}{2}$ 

**X** 3. 1

X 4. 2

Question ID : 630680507636

Option 1 ID: 6306801983985

Option 2 ID: 6306801983988

Option 3 ID: 6306801983986

Option 4 ID: 6306801983987

Status: Answered

Chosen Option :  $\boldsymbol{2}$ 

Q.12 The point which lies on the x-axis at a distance of 8 units in the negative direction of the x-axis is.

Ans

X 1. (8,0)

× 2. (0,8)

**√** 3. (-8,0)

× 4. (0,-8)

Question ID: 630680507632

Option 1 ID: 6306801983969

Option 2 ID: 6306801983971

Option 3 ID: 6306801983970

Option 4 ID: 6306801983972

Status: Answered

Chosen Option: 3

Q.13 A cylindrical cistern whose radius is 8 cm is partly filled with water. If a conical block of iron whose radius is 3.2 cm and height is 9 cm is wholly immersed in the water, by how much will the water level rise? (take  $\pi = \frac{22}{3}$ )

Ans X 1. 0.66 cm

× 2. 0.52 cm

× 3. 0.83 cm

√ 4. 0.48 cm

Question ID: 630680507631

Option 1 ID: 6306801983967

Option 2 ID: 6306801983966

Option 3 ID: 6306801983968

Option 4 ID: 6306801983965

Status: Answered





Q.14 The average age of husband, wife and their child 2 years ago was 24 years and that of wife and the child 4 years ago was 18 years. The present age of the husband is:

Ans X 1. 38 years

× 2. 26 years

× 3. 29 years

Question ID: 630680507605

Option 1 ID: 6306801983863

Option 2 ID: 6306801983861

Option 3 ID: 6306801983864

Option 4 ID: 6306801983862

Status: Answered

Chosen Option: 4

Q.15 Maria deposited Rs. 5000 in a bank account that offers a simple interest rate. After 4 years, she received Rs. 1600 as interest. What is the annual rate of interest?

Ans X 1. 9%

X 2. 9.5%

**√** 3. **8%** 

× 4. 8.5%

Question ID: 630680507606

Option 1 ID: 6306801983867

Option 2 ID: 6306801983868

Q.16 A fish tank has 16 male fish and 18 female fish. The probability of fish taken out is a male fish:

Ans

**√** 3.  $\frac{8}{17}$ 

 $\times$  4.  $\frac{16}{17}$ 

Option 3 ID: 6306801983865 Option 4 ID: 6306801983866

Status: Answered

Chosen Option: 3

Question ID: 630680507627 Option 1 ID: 6306801983951 Option 2 ID: 6306801983952

Option 3 ID: 6306801983950 Option 4 ID: 6306801983949

Status: Answered



Find the average of square of even numbers from 1 to 9.

Ans × 1. 18

X 2. 46

**√** 3. 30

X 4. 32

Question ID: 630680507604

Option 1 ID: 6306801983857

Option 2 ID: 6306801983860

Option 3 ID: 6306801983858

Option 4 ID: 6306801983859

Status : **Answered** 

Chosen Option :  $\boldsymbol{3}$ 

Q.18 The product of two consecutive positive integers is 12882. To find the integers, this can be represented in the form of

Ans

$$\times$$
 1.  $x^2 + x + 12882 = 0$ 

$$\checkmark$$
 2.  $x^2 + x - 12882 = 0$ 

$$\times$$
 3.  $2x^2 + x - 12882 = 0$ 

$$\times$$
 4.  $x^2 - 2x - 12882 = 0$ 

Question ID: 630680507630

Option 1 ID: 6306801983961

Option 2 ID: 6306801983962

Option 3 ID: 6306801983964

Option 4 ID: 6306801983963

Status: Answered

Chosen Option: 1

Q.19 A mixture contains alcohol and water in the ratio of 4:1. If 5 liters of water is added to the mixture, then the ratio becomes 4: 7. Find the quantity of alcohol in the given mixture?

Ans

X 1. 3 liters

 $\checkmark$  2.  $\frac{10}{3}$  liters

 $\times$  3.  $\frac{3}{10}$  liters

× 4. 10 liters

Question ID: 630680507619

Option 1 ID: 6306801983918

Option 2 ID: 6306801983919

Option 3 ID: 6306801983920

Option 4 ID: 6306801983917

Status: Answered





Q.20 If side of the square is increased by 3 cm, then its area increases by 153 sq.cm. What is the perimeter of original square?

Ans

× 1. 24 cm

× 2. 48 cm

X 3. 102 cm

√ 4. 96 cm

Question ID: 630680507634

Option 1 ID: 6306801983977

Option 2 ID: 6306801983978

Option 3 ID: 6306801983980

Option 4 ID: 6306801983979

Status: Answered

Chosen Option: 4

Q.21 Not taking all stoppages into the account, the speed of the bus is 44kmph and including stoppages, it is 32 kmph. For how many minutes does the bus stop per hour?

Ans

X 1 14.23 minutes

√ 2. 16.38 minutes

× 3.12 minutes

× 4.11 minutes

Question ID: 630680507623

Option 1 ID: 6306801983935

Option 2 ID: 6306801983936

Option 3 ID: 6306801983934

Option 4 ID: 6306801983933

Status: Not Answered

Chosen Option : --

Q.22 A tier has two punctures. The first punctures alone would have made the tier flat in 14 min and the second alone would have done it in 7 min. if air leaks out at a constant rate, how long does it take both the punctures together to make it flat?

Ans

**×** 1. 6.27 minutes

√ 2. 4.67 minutes

× 3. 5.67 minutes

**×** 4. 5.34 minutes

Question ID: 630680507621

Option 1 ID: 6306801983928

Option 2 ID: 6306801983925

Option 3 ID: 6306801983926

Option 4 ID: 6306801983927

Status: Answered





Q.23 In a rectangle, diagonal is 6 times of its breadth. The ratio of length to breadth is:

Ans

**✓** 1. √35:1

× 2. √35:2

X 3. 35:2

X 4. 35:1

Question ID: 630680507635

Option 1 ID: 6306801983981 Option 2 ID: 6306801983984

Option 3 ID: 6306801983983

Option 4 ID: 6306801983982

Status : **Answered** 

Chosen Option: 1

Q.24 If the price of a product is increased by 28%, by what percentage should it be decreased to return to the original price?

Ans X 1. 31%

× 2. 25.2%

X 3. 29.2%

√ 4. 21.87%

Question ID: 630680507615

Option 1 ID: 6306801983904

Option 2 ID: 6306801983901

Option 3 ID: 6306801983903

Option 4 ID: 6306801983902

Status: Answered

Chosen Option: 4

Q.25 A trader expects a gain of 24 % on his cost price. If in a week his sale is of Rs. 580, then what is his profit?

Ans

✓ 1. Rs. 112.26

X 2. Rs. 108.78

X 3. Rs. 103.45

X 4. Rs. 106.55

Question ID: 630680507616

Option 1 ID: 6306801983908

Option 2 ID: 6306801983907

Option 3 ID: 6306801983905

Option 4 ID: 6306801983906

Status: Answered





Q.26 Find the marked price if selling price = Rs 2261 and Discount = 15%.

Ans

X 1. Rs.2560

× 2. Rs.2780

X 3. Rs.2890

√ 4. Rs.2660

Question ID: 630680507618

Option 1 ID: 6306801983913

Option 2 ID: 6306801983915

Option 3 ID: 6306801983916

Option 4 ID: 6306801983914

Status : **Answered** Chosen Option : **4** 

Q.27 The sides of a triangle are 6 cm, 10 cm and 14 cm. Determine the radius of the inscribed circle.

Ans

 $\times$  1.  $\sqrt{2}$  cm

× 2. 2 cm

X 3. 3 cm

 $\checkmark$  4.  $\sqrt{3}$  cm

Question ID: 630680507633

Option 1 ID: 6306801983976

Option 2 ID: 6306801983974

Option 3 ID: 6306801983973 Option 4 ID: 6306801983975

Status : Not Answered

Chosen Option: --

Q.28 A shopkeeper sells his goods at cost price but uses a weight of 966 grams for a kg. weight. What is his gain percent?

Ans X 1. 2.78%

**X** 2. 2.56%

**✓** 3. 3.52%

X 4. 3.12%

Question ID: 630680507617

Option 1 ID: 6306801983910

Option 2 ID : 6306801983909

Option 3 ID: 6306801983912

Option 4 ID: 6306801983911

Status : **Answered** 





Q.29 A man travels at the speed of 6 kmph towards the office and comes back at the speed of 7 kmph. If it takes him 13 hours for going to and coming back from office. How far is office from the home?

Ans

√ 1. 42 km

× 2. 38 km

X 3. 32 km

X 4. 28 km

Question ID: 630680507624

Option 1 ID: 6306801983940 Option 2 ID: 6306801983939 Option 3 ID: 6306801983938

Option 4 ID: 6306801983937

Status: Answered

Chosen Option: 1

 $\textbf{Q.30} \quad \text{A sum of money becomes Rs. 4761 at a rate of } 15\% \text{ compounded annually for 2 years. The sum of money is.}$ 

Ans

X 1. Rs. 2700

X 2. Rs. 3300

X 3. Rs. 2300

Question ID: 630680507608

Option 1 ID: 6306801983874

Option 2 ID: 6306801983875

Option 3 ID: 6306801983873

Option 4 ID: 6306801983876 Status: Answered

Chosen Option: 4

Q.31 The table given below shows the selling price and cost price of five different articles

Article	Selling Price	Cost Price
Grinder	2500	2800
Iron	1800	1600
Lamp	900	1200
Induction	2000	2400
Fan	800	480

Find the discount percentage of Lamp.

Ans

√ 1. 25%

× 2. 75%

X 3. 35%

X 4. 15%

Question ID: 630680507610

Option 1 ID: 6306801983883

Option 2 ID: 6306801983881

Option 3 ID: 6306801983882

Option 4 ID: 6306801983884

Status: Answered



Q.32 In a deck of 52 playing cards, there are 4 suits (hearts, diamonds, clubs, spades), each with cards numbered 2 through 10, and face cards (jack, queen, king) along with an ace. Consider drawing a single card from the deck. What is the probability of drawing a card with a number less than 5?

Ans

X 1. 
$$\frac{13}{4}$$

$$\times$$
 2.  $\frac{1}{4}$ 

$$\times$$
 4.  $\frac{4}{5}$ 

Question ID: 630680507628

Option 1 ID: 6306801983954 Option 2 ID: 6306801983955

Option 3 ID: 6306801983953 Option 4 ID: 6306801983956

Status : **Answered** 

Chosen Option :  ${\bf 3}$ 

Q.33 A fraction becomes  $\frac{1}{3}$  when 2 is subtracted from the numerator and it becomes  $\frac{1}{5}$  when 8 is added to its denominator. The fraction obtained is:

Ans

**X** 1. 
$$\frac{2}{5}$$

**X** 2. 
$$\frac{5}{2}$$

**✓** 3. 
$$\frac{1}{-3}$$

$$\times$$
 4.  $\frac{1}{3}$ 

Question ID : 630680507625

Option 1 ID: 6306801983943

Option 2 ID : 6306801983944

Option 3 ID: 6306801983942 Option 4 ID: 6306801983941

Status : **Answered** 





Q.34 The difference between two numbers is 300. If 6 % of one number is 15 % of the other number, then find the two

Ans

**X** 1. 400,700

× 2. 100,400

X 3. 500,800

4. 200,500

Question ID: 630680507614

Option 1 ID: 6306801983898

Option 2 ID: 6306801983897

Option 3 ID: 6306801983900

Option 4 ID: 6306801983899

Status : Answered

Chosen Option: 4

Section: Intellectual Potential Test

Q.1 Select the correct option based on the statements and sequence of actions given below

Statement: Dengue has engulfed the majority of the population in Delhi in the year-2023 and there has been cases of deaths also.

**Courses of Action:** 

I. Precautionary measures should be taken every year before the onset of diseases in the form of fogging and awareness campaigns.

II. Medical facilities are also need to be upgraded as the diseases are changing their

mutant variations and becoming more and more fatal.

Ans X 1. Only II follows

2. Both I and II follow

X 3. Neither I nor II follows

X 4. Only I follows

Question ID: 630680507425

Option 1 ID: 6306801983142

Option 2 ID: 6306801983143

Option 3 ID: 6306801983144

Option 4 ID: 6306801983141 Status: Answered

Chosen Option: 2

Q.2 How is Rishav's father's wife's father's wife related to Rishav?

Ans X 1. Grandmother

X 2. Aunty

X 3. Mother

4. Maternal grandmother

Question ID : 630680507407

Option 1 ID: 6306801983071 Option 2 ID: 6306801983069

Option 3 ID: 6306801983070

Option 4 ID : 6306801983072

Status : Answered





Q.3 If 'A' means ' multiplied by", 'B' means 'divided by', 'C' means 'minus' and 'D' means ''plus''' ', then what will be the value of following expression?

3 A 6 C 6 B 2 D 4 = ?

Ans

**1.19** 

X 2.21

**X** 3.18

**X** 4. 20

Question ID: 630680507428

Option 1 ID: 6306801983154

Option 2 ID: 6306801983156

Option 3 ID: 6306801983153

Option 4 ID: 6306801983155

Status : Answered

Chosen Option: 1

Q.4 Read the given statement(s) 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 statement(s).

Statements:

Some science are business.

All business are sociology

Some sociology are yoga

#### Conclusion:

I. Some yoga are business.

II. Some sociology are business.

III. Some sociology are science.

IV. Some yoga are science.

Ans

X 1. Only I and II

X 2. Only III and IV

X 3. Only I and IV

4. Only II and III



Question ID: 630680507409

Option 1 ID: 6306801983077

Option 2 ID: 6306801983079

Option 3 ID: 6306801983080

Option 4 ID: 6306801983078

Status : **Answered** Chosen Option : **4** 

Q.5 Ravi is standing facing north and starts walking towards north from a point A and after walking 10 km he turns to his right and again walks 5 km and reaches a point B. From point B Ravi again turns to his left and walks 5 km and reaches another point C. From point C, Ravi again turns to his left and walks 5 km to reach point D and ends his journey. In which direction is Ravi standing from the point where he started his journey?

Ans

X 1. South

🗶 2. East

🗶 3. West

4. North

Question ID: 630680507410

Option 1 ID : 6306801983082

Option 2 ID: 6306801983084

Option 3 ID: 6306801983083

Option 4 ID: 6306801983081

Status : Answered





Q.6 Which option will replace the question mark based on the country and its capital?

Bangladesh: Dhaka:: England:?

Ans

X 1. Lords

2. London

X 3. Thames city

X 4. Sydney

Question ID: 630680507421

Option 1 ID: 6306801983126

Option 2 ID: 6306801983127

Option 3 ID : **6306801983128** Option 4 ID : **6306801983125** 

Status : Answered

Chosen Option : 2

Q.7 In a certain code language, FACE is written as GADE and ROSE is written as SOTE. How TIME will be written in the same code language?

Ans

X 1. EMIT

X 2. SILE

X 3. TINE

4. UINE

Question ID: 630680507405

Option 1 ID: 6306801983064

Option 2 ID: 6306801983063

Option 3 ID: 6306801983062

Option 4 ID: 6306801983061

Status: Answered

Chosen Option: 4

Q.8 Read the given statement(s) 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 statement(s).

Statements:

Some Cobras are Rabbits. All baboons are tortoise.

All Rabbits are Baboons.

Conclusions:

I. Some Cobras are baboons

II. All baboons are rabbits

III. All tortoise are cobras

IV. All baboons are cobras

Ans 3

🟋 1. Only IV

🗶 2. Only II

X 3. Only III

4. Only I

Question ID: 630680507408

Option 1 ID: 6306801983076

Option 2 ID: 6306801983074

Option 3 ID: 6306801983075

Option 4 ID: 6306801983073

Status : Answered





Q.9 What will come in place of the question marks (?) to make the series given below logically complete?

37, 34, 38, 35, 39, 36, 40, ??

Ans X 1. 38, 42

**X** 2. 42, 38

**X** 3. 41, 37

4. 37, 41

Question ID: 630680507430

Option 1 ID: 6306801983163

Option 2 ID: 6306801983164

Option 3 ID: 6306801983161

Option 4 ID: 6306801983162

Status: Answered

Chosen Option :  ${\bf 4}$ 

Q.10 How many such letters are there in the series which are immediately preceded by numbers?

 $7\,S\,\#\,6\,N\,@\,8\,D\,\#\,5\,\%\,H\,^{\wedge}\,6\,B\,8\,\&\,G\,5\,\$\,4\,B\,@\,4\,V\,1\,\#$ 

Ans X 1.7

**X** 2. 5

**3**.6

**X** 4.8

Question ID: 630680507415

Option 1 ID: 6306801983103

Option 2 ID: 6306801983101

Option 3 ID: 6306801983102

Option 4 ID: **6306801983104**Status: **Answered** 

Chosen Option : 3

Q.11 If all the symbols are removed from the series, what will be the eleventh element from the left?

@ 8 M 6 B 4 # 7 N V % 6! H 8 # 3 J 5 V D 8 V & B 4 @

Ans

X 1. J

X 2. H

**X** 3.3

Question ID: 630680507411

Option 1 ID: 6306801983088

Option 2 ID: 6306801983087

Option 3 ID: 6306801983085

Option 4 ID: 6306801983086

Status : **Answered** 





Q.12 Which of the following options is different from the other three options on the basis of cities and their respective states?

Ans

X 1. Agra

2. Haridwar

X 3. Gorakhpur

\chi 4. Varanasi

Question ID: 630680507420

Option 1 ID : 6306801983121

Option 2 ID: 6306801983124 Option 3 ID: 6306801983123

Option 4 ID : **6306801983122** 

Status: Answered

Chosen Option: 2

Q.13 Which of the following options will replace the question mark?

1: 49 :: 2 :?

Ans

**X** 1.81

**2**. 64

**X** 3.36

**X** 4. 25

Question ID: 630680507431

Option 1 ID: 6306801983168

Option 2 ID: 6306801983165

Option 3 ID: 6306801983166

Option 4 ID: **6306801983167** Status: **Answered** 

Chosen Option: 2

Q.14 If the rank of a boy in that group is 5th from the top and 18th from the bottom, then calculate the number of boys required in the group to make the total number of this

group 40..
Ans X 1.17

**X** 1.17 **X** 2.20

**X** 3. 19

**4**. 18

Question ID: 630680507402

Option 1 ID: 6306801983049

Option 2 ID: 6306801983052

Option 3 ID: 6306801983051

Option 4 ID: **6306801983050** 

Status : **Answered** 





Q.15 Which of the following options is different from the other three options?

Ans

X 1. Kuchipudi

🗙 2. Odissi

✓ 3. Lavani

X 4. Bharatanatyam

Question ID: 630680507419

Option 1 ID: 6306801983118 Option 2 ID: 6306801983119

Option 3 ID: 6306801983117

Option 4 ID: **6306801983120**Status: **Answered** 

Chosen Option: 4

Q.16 Which of the following pair is similar to the expression given below?

354: 453

Ans 🗶

**X** 1. 456: 356

X 2. 726: 274

**3**. 456: 870

**X** 4. 733: 753

Question ID: 630680507432

Option 1 ID: 6306801983169

Option 2 ID: 6306801983170

Option 3 ID: 6306801983172

Option 4 ID: 6306801983171

Status : **Answered** 

Chosen Option: 3

Q.17 In a certain code language, PARLE is written as APREL and APPLE is written as PAPEL.

How MARCH will be written in the same code?

Ans X 1. HCRAM

X 2. HCRMA

X 3. AMHCR

4. AMRHC

Question ID: 630680507406

Option 1 ID: 6306801983067

Option 2 ID: 6306801983068

Option 3 ID : **6306801983065** 

Option 4 ID: 6306801983066

Status : **Answered** 





Q.18 If 'A' means ' multiplied by", 'B' means 'divided by', 'C' means 'minus' and 'D' means ''plus''' ', then what will be the value of following expression?

6 A 7 C 26 B 13 D 8 =

Ans X 1.45

**X** 2.47

**X** 3.46

**4**. 48

Question ID: 630680507427

Option 1 ID: 6306801983149

Option 2 ID: 6306801983151

Option 3 ID: 6306801983150

Option 4 ID: 6306801983152

Status : Answered

Chosen Option: 4

Q.19 If 'A' means ' multiplied by", 'B' means 'divided by', 'C' means 'minus' and 'D' means ''plus''' ', then what will be the value of following expression?

8 A 3 C 16 B 4 D 7 = ?

Ans 🥒 1. 27

**X** 2. 28

**X** 3. 26

**X** 4. 25

Question ID: 630680507426

Option 1 ID: 6306801983145

Option 2 ID : 6306801983148

Option 3 ID: 6306801983146

Option 4 ID: **6306801983147**Status: **Answered** 

Chosen Option: 1

Q.20 Which among the following option is correct on the basis of the statements and conclusions given below(Statement is based on hights of 5 person namely Sunil,Rahul Rakesh,Vikash,Mansi)?

Statement :- Sunil>Rahul>Rakesh>Vikash>Mansi Conclusion I:- Sunil is the shortest.

Conclusion II:- Mansi is taller than Sunil

Ans 1. Neither conclusion I nor II

X 2. Only II conclusion follow

X 3. Both conclusion I and II

X 4. Only I conclusion follow

Question ID: 630680507417

Option 1 ID: 6306801983112

Option 2 ID: 6306801983110

Option 3 ID: 6306801983111

Option 4 ID: 6306801983109

Status : Answered





Q.21 Which of the following options is different from the other three options?

Δns

X 1. Onion

X 2. Potato

X 3. Brinjal

4. Apple

Question ID: 630680507418

Option 1 ID: 6306801983114

Option 2 ID: 6306801983113

Option 3 ID: 6306801983116 Option 4 ID: 6306801983115

Status : Answered

Chosen Option: 4

Q.22 On the basis of the statement given below, identify the total amount spent by a college in a year.

Statement I:- The College sold 10 articles worth Rs 200 in a year. Statement II:- The College sold 20 Pens worth total Rs 20 in a year.

Ans

X 1. Only statement II is required to answer.

2. Both the statements are insufficient to answer.

💢 3. Both Statement I and Statement II are required to answer the question.

4. Only statement I is required to answer.

Question ID: 630680507422

Option 1 ID: 6306801983131

Option 2 ID: 6306801983132

Option 3 ID: **6306801983130** Option 4 ID: **6306801983129** 

Status : **Answered** 

Chosen Option: 2

Q.23 How many such symbols are there in the series which are immediately preceded by numbers?

6 V B 4 # 7 2 H ! 5 @ 6 C 7 M # 5 H 6 # D <mark>5</mark> \$ B 9 # 6 J

A ---

**X** 1.6

**X** 2.3

**X** 3

**4**. 5

Question ID: 630680507414

Option 1 ID: 6306801983100

Option 2 ID: 6306801983097

Option 3 ID: 6306801983098

Option 4 ID : **6306801983099** 

Status : **Answered** 





Q.24 If P>Q>R>S>T>U>V, then which among the following is biggest in this series?

Δns

X 1. Q

**※** 2. V **※** 3. U

**√** 4. P

Question ID: 630680507416

Option 1 ID: 6306801983107

Option 2 ID: 6306801983106

Option 3 ID: 6306801983105

Option 4 ID: 6306801983108

Status: Answered

Chosen Option: 4

Q.25 In a class with total 32 students, Vimla's rank from the top is 16. Find Vimla's rank from the bottom?

Ans

**X** 1.18

**2**. 17

**X** 3. 20

**X** 4. 19

Question ID: 630680507403

Option 1 ID: 6306801983055

Option 2 ID: 6306801983056

Option 3 ID: 6306801983053

Option 4 ID: **6306801983054**Status: **Answered** 

Chosen Option: 2

Q.26 5 friends s namely Abhishek, Binodni, Rati, Kush and Priya are sitting in a straight line facing north. Abishek is sitting on the extreme left side. Binodni is sitting immediately after Abhishek. Kush is sitting exactly between Binodni and Priya. If Priya is immediately before Rati, then who is sitting in the middle of the line?

Ans

X 1. Abhishek

🗙 2. Priya

🗙 4. Binodni

Adda[24]7

Question ID: 630680507400

Option 1 ID: 6306801983041

Option 2 ID: 6306801983044

Option 3 ID : 6306801983043

Option 4 ID: 6306801983042

Status : **Answered** 

Chosen Option :  ${\bf 3}$ 





Q.27 If all the letters are removed from the series, what will be the ninth element from the right?

% 6!H8\*6k9F!A#5@6C7M#5H%6GB#9

Ans X 1.5

**2**. @

**X** 3.7

**X** 4. 6

Question ID: 630680507413

Option 1 ID: 6306801983093

Option 2 ID: 6306801983095

Option 3 ID: 6306801983096

Option 4 ID: 6306801983094

Status : Answered

Chosen Option : 2

Q.28 What will come in place of the question marks (?) to make the series given below logically complete?

43, 48, 41, 46, 39, 44, 37, ??

**Ans** X 1. 45, 38

2. 42, 35

**X** 3. 38, 45

**X** 4. 35, 42

Question ID: 630680507429

Option 1 ID: 6306801983158

Option 2 ID: 6306801983159

Option 3 ID: 6306801983157

Option 4 ID: 6306801983160

Status : Answered

Chosen Option : 2

Q.29 Which of the following pair is similar to the expression given below?

14:21:28

Ans X 1.7:13:19

**X** 2.5:15:21

3. 13 : 23 : 33

**X** 4.6:14:23

Question ID: 630680507433

Option 1 ID: 6306801983174

Option 2 ID: 6306801983176

Option 3 ID: 6306801983173

Option 4 ID : **6306801983175** 

Status: Not Answered





Q.30 How many symbols are there in the series which are followed by letters?

J # D 4 \$ 8 M ^ 6 V B 4 # 7 6 Z ^ B 4 M @ 6 B 4 # N 7 &

Ans X 1.6

**X** 2. 5 **3**.3

**X** 4.4

Question ID: 630680507412

Option 1 ID: 6306801983092

Option 2 ID: 6306801983091

Option 3 ID: 6306801983089

Option 4 ID: 6306801983090

Status: Answered

Chosen Option: 3

Q.31 What will come in the place of question marks (??) to make the following series logically complete?

AC 21, EG 24, IK 27, MO 30 ??

**Ans** X 1. SR 33

2. QS 33

X 3. RS 33

X 4. SQ 33

Question ID : 630680507423

Option 1 ID: 6306801983136

Option 2 ID: 6306801983134

Option 3 ID: 6306801983135

Option 4 ID: 6306801983133 Status: Answered

Chosen Option: 2

Q.32 Rank of Bindiya is five from the top and 24 from the bottom of the list that shows

qualified candidates. Find the total number of qualified candidates.

X 3.29

**4**. 28

Question ID: 630680507404

Option 1 ID: 6306801983057

Option 2 ID: 6306801983058 Option 3 ID: 6306801983060

Option 4 ID: 6306801983059

Status: Answered





Q.33 5 friends s namely Abhishek, Binodni, Rati, Kush and Priya are sitting in a straight line facing north. Abishek is sitting on the extreme left side. Binodni is sitting immediately after Abhishek. Kush is sitting exactly between Binodni and Priya. If Priya is sitting immediately before Rati, then who is sitting at the extreme right-hand side of the line?

Ans X 1. Binodni

X 2. Abhishek

3. Rati

🟋 4. Kush

Question ID: 630680507401
Option 1 ID: 6306801983046
Option 2 ID: 6306801983045
Option 3 ID: 6306801983048
Option 4 ID: 6306801983047
Status: Answered

Chosen Option : 3

Q.34 Select the correct option based on the statements and sequence of actions given below.

Statement: A group of ten students caught doing ragging of a junior student in a college .

Courses of Action:

I. The rules of the ragging should be strictly implemented by the management authorities of the college.

II. Management authorities should also conduct research why students do ragging.

Ans 💜 1. Both I and II follows

X 2. Only II follow

X 3. Neither I nor II follows

X 4. Only I follow

Question ID: 630680507424
Option 1 ID: 6306801983139
Option 2 ID: 6306801983138
Option 3 ID: 6306801983140
Option 4 ID: 6306801983137

Status : Answered

Chosen Option: 1

Section: Domain Knowledge

Q.1 Which of the following statement is correct regarding PERT in construction management?

I. PERT is a network planning models

II. PERT is named as program evaluation and review technique

Ans X 1. Neither I nor II

✓ 2. Both I and II

X 3. Only I

★ 4. Only II

Question ID: 630680506876 Option 1 ID: 6306801981012 Option 2 ID: 6306801981011

Option 3 ID: **6306801981009** Option 4 ID: **6306801981010** 

Status : Answered





**Q.2** Reduced bearing of any line is ' $\theta$ ' and length is '1', then what will be the latitude of line?

Ans

 $\times$  1. L = -l tan $\theta$ 

 $\times$  2. L = +l sin $\theta$ 

 $\checkmark$  3.  $L = +l \cos\theta$ 

 $\times$  4. L =  $-1 \cot \theta$ 

Question ID: 630680506934

Option 1 ID: 6306801981243

Option 2 ID : 6306801981241

Option 3 ID : 6306801981242

Option 4 ID: 6306801981244

Status: Answered

Chosen Option: 3

Q.3 A rectangular bar of cross-sectional area 20000 mm $^2$  is subjected to an axial load of 30 kN, section is inclined at an angle of 45° with normal cross-section of the bar, what will be the shear stress on a section?

Ans

✓ 1. 0.75 N/mm<sup>2</sup>

× 2. 0.95 N/mm<sup>2</sup>

**×** 3. 0.65 N/mm<sup>2</sup>

× 4. 0.45 N/mm<sup>2</sup>

Question ID: 630680506867

Option 1 ID: 6306801980974

Option 2 ID: 6306801980973

Option 3 ID: 6306801980975

Option 4 ID: 6306801980976

Status : **Answered** Chosen Option : **1** 

Q.4 If the velocity gradient of a fluid is 24000 sec<sup>-1</sup>, force required to move a fluid between plate is 3 N/m<sup>2</sup>, what will be the fluid viscosity between the plates?

Ans

$$\checkmark$$
 1.  $1.25 \times 10^{-4} \frac{Ns}{m^2}$ 

$$\times$$
 2. 1.93  $\times$  10<sup>-4</sup>  $\frac{Ns}{m^2}$ 

$$\times$$
 3.  $1.97 \times 10^{-5} \frac{Ns}{m^2}$ 

$$\times$$
 4. 2.67  $\times$  10<sup>-3</sup>  $\frac{Ns}{m^2}$ 

Question ID: 630680506899

Option 1 ID: 6306801981101

Option 2 ID: 6306801981104

Option 3 ID: 6306801981102

Option 4 ID: 6306801981103

Status: Answered





Q.5 Which of the following statement is correct regarding camber in road design?

I. Camber is the slope provided to the road surface in the transverse direction

II. The purpose of camber to drain off the rain water from the road surface

Ans X 1. Only I

✓ 2. Both I and II

X 3. Neither I nor II

X 4. Only II

Question ID: 630680506919

Option 1 ID: 6306801981181

Option 2 ID: 6306801981183

Option 3 ID: 6306801981184 Option 4 ID: 6306801981182

Status : **Answered** 

Chosen Option : 2

Q.6 The statistical methods are used to determine the bacterial density that has the maximum probability with the given set of constants, which represent as \_\_\_\_\_.

Ans

✓ 1. MPN

**X** 2. SPN

X 3. BOD

X 4. COD

Question ID: 630680506909

Option 1 ID: 6306801981141

Option 2 ID: 6306801981144

Option 3 ID: 6306801981142

Option 4 ID: 6306801981143

Status : Answered
Chosen Option : 1

Q.7 In sieve analysis, the portion of soil sample retained on sieve (+4.75 mm size) is termed as the \_

Ans

X 1. Sieve fraction

X 2. Sedimentation fraction

X 3. Aperture fraction

✓ 4. Gravel fraction

Question ID: 630680506886

Option 1 ID: 6306801981052

Option 2 ID: 6306801981051

Option 3 ID: 6306801981049

Option 4 ID: 6306801981050

Status : Answered



Q.8 Which of the following is type of false ceiling in building?

I. Aluminum frame ceiling

II. Concrete frame ceiling

Ans X 1. Both I and II

✓ 2. Only I

X 3. Only II

X 4. Neither I nor II

Question ID : **630680506940** 

Option 1 ID: 6306801981267 Option 2 ID: 6306801981265

Option 3 ID : **6306801981266** Option 4 ID : **6306801981268** 

Status : **Answered** 

Chosen Option :  $\boldsymbol{2}$ 

**Q.9** Which of the following is correct equation of Weber's number  $(W_e)$ ? (where  $F_i$  = inertia force,  $F_s$  = surface tension force)

Ans

$$\times$$
 1.  $W_e = \frac{F_i}{F_s}$ 

$$\times$$
 2.  $W_e = F_i.F_s$ 

$$imes$$
 3.  $W_e = \sqrt{\frac{{F_i}^2}{{F_s}^2}}$ 

$$\checkmark$$
 4.  $W_e = \sqrt{\frac{F_i}{F_s}}$ 

Question ID: 630680506903

Option 1 ID: 6306801981117

Option 2 ID : 6306801981120

Option 3 ID: 6306801981119

Option 4 ID: 6306801981118

Status : **Answered** 





Q.10 Which of the following statement is correct regarding assumption of 'limit state of collapse' in RCC design?

I. The tensile strength of the concrete is ignored

II. For design purposes the partial safety factor  $\gamma_{\mbox{\scriptsize m}},$  equal to 1.75 shall be applied

Ans

- ✓ 1. Only I
- × 2. Only II
- X 3. Both I and II
- X 4. Neither I nor II

Question ID: 630680506880 Option 1 ID: 6306801981025 Option 2 ID: 6306801981026 Option 3 ID: 6306801981027 Option 4 ID: 6306801981028

Status : Answered

Chosen Option: 1

Q.11 The turbidity of water depends upon the which of the following factor?

Fineness of particles present in water

II. Concentration of particles present in water

Ans

- X 1. Only II
- ✓ 2. Both I and II
- X 3. Only I
- X 4. Neither I nor II

Question ID: 630680506907

Option 1 ID: 6306801981134

Option 2 ID: 6306801981135

Option 3 ID: 6306801981133 Option 4 ID: 6306801981136

Status : Answered

Chosen Option: 2

Q.12 The ratio of shear stress to the corresponding shear strain with in the elastic limit is known as \_\_\_\_\_

I. Modulus of rigidity

II. Shear modulus

Ans 1. Both I and II

× 2. Neither I nor II

✗ 3. Only II

X 4. Only I

Question ID: 630680506862

Option 1 ID: 6306801980955

Option 2 ID: **6306801980956** Option 3 ID: **6306801980954** 

Option 4 ID : **6306801980953** 

Status: Answered





**Q.13** What is the value of camber recommended by the IRC for high type bituminous surface in heavy rain fall area?

Ans

√ 1. 1 in 50

× 2. 1 in 40

X 3. 1 in 33

X 4. 1 in 25

Question ID: 630680506923

Option 1 ID: 6306801981197 Option 2 ID: 6306801981200

Option 3 ID: 6306801981199 Option 4 ID: 6306801981198

Status : **Answered** Chosen Option : **3** 

Q.14 Which of the following material can be used for formwork?

I. Timber

II. Steel

III. Plywood

Ans

√ 1. I, II and III

X 2. Only I and III

X 3. Only II and III

X 4. Only I and II

Question ID: 630680506937

Option 1 ID: 6306801981256

Option 2 ID: 6306801981255

Option 3 ID: 6306801981254

Option 4 ID: 6306801981253 Status: Answered

Chosen Option: 4

Q.15 Ratio of map distance to the corresponding ground distance is independent of unit of measurement and it is called

Δns

X 1. Numerical scales

✓ 2. Representative fraction

✗ 3. Engineer's scale

X 4. Plan

Question ID: 630680506931

Option 1 ID: 6306801981230

Option 2 ID: 6306801981231

Option 3 ID: 6306801981232

Option 4 ID: **6306801981229** Status: **Answered** 





Q.16 A \_\_\_\_\_ is an error that, under the same conditions, will always be of the same size and sign.

Ans >

★ 1. Compensating errors

✓ 2. Cumulative error

X 3. Mistakes

★ 4. Accidental errors

Question ID : **630680506930** Option 1 ID : **6306801981225** 

Option 2 ID : **6306801981227**Option 3 ID : **6306801981228** 

Option 4 ID: 6306801981226

Status : **Answered** 

Chosen Option : 2

Q.17 \_\_\_\_\_ can be defined as time dependent increase in strain of a solid body under constant or controlled stress.

Ans

★ 1 Shrinkage

X 2. Compaction

× 4. Elasticity

Question ID: 630680506874

Option 1 ID: 6306801981003

Option 2 ID: 6306801981004

Option 3 ID: 6306801981002

Option 4 ID: 6306801981001

Status : **Answered** Chosen Option : **3** 

Q.18 Arrange the steps of 'DOE method of concrete mix design' from first to last.

I. Find the target mean strength from the specified characteristic strength

II. Calculate the water/cement ratio

III. Find the cement content knowing the water/cement ratio and water content

IV. Proportion of fine aggregate is determined in total aggregate

V. Find out the total aggregate content

VI. Decide water content for the required workability, expressed in terms of slump or vebe time

Ans

**X** 1. I, IV, VI, V, III, II

× 2. II, V, VI, IV, III, I

**X** 3. II, IV, V, III, VI, I

Question ID: 630680506871

Option 1 ID: 6306801980989

Option 2 ID: 6306801980992

Option 3 ID: 6306801980990

Option 4 ID: 6306801980991

Status: Not Answered



In Bernoulli's equation  $\frac{p}{\rho g} + \frac{v^2}{2g} + z = constant, \frac{v^2}{2g}$  represent \_\_\_\_\_\_.

Ans X 1. pressure head

X 2. potential head

X 3. datum head

✓ 4. kinetic head

Question ID: 630680506900 Option 1 ID: 6306801981107 Option 2 ID: 6306801981106 Option 3 ID: 6306801981108

Option 4 ID: **6306801981105**Status: **Answered** 

Chosen Option: 4

Q.20 According to IS456: 2000, the maximum compressive strain in concrete in axial compression is taken as \_\_\_\_\_\_, in limit state of collapse.

Ans X 1. 0.004

**✓** 2. **0.002** 

X 3. 0.009

**×** 4. 0.003

Question ID : **630680506881** 

Option 1 ID : 6306801981030

Option 2 ID: **6306801981029** Option 3 ID: **6306801981031** 

Option 4 ID : **6306801981032** 

Status : **Answered** 

Chosen Option : 2

Q.21 Which of the following statement is correct regarding 'working from whole to part'?

I. The idea of working from whole to part prevent the accumulation of errors

II. Working from whole to part control and localise minor errors

Ans 1. Both I and II

X 2. Neither I nor II

X 3. Only I

X 4. Only II

Question ID: 630680506929

Option 1 ID: 6306801981223

Option 2 ID: 6306801981224

Option 3 ID: 6306801981221

Option 4 ID: 6306801981222

Status: Answered





Q.22 Which of the following is NOT the type of transverse joint in rigid pavement?

Ans

★ 1. Construction joints

✓ 2. Warping joints

X 3. Contraction joints

X 4. Expansion joints

Question ID: 630680506926

Option 1 ID: 6306801981211

Option 2 ID: 6306801981212

Option 3 ID: 6306801981209

Option 4 ID: **6306801981210**Status: **Answered** 

Chosen Option : 1

Q.23 \_\_\_\_\_ is a colourless, odourless and toxic gas, produced when organic materials like natural gas coal or wood are incompletely burnt.

Ans

X 1. Sulphur di oxide

✓ 2. Carbon monoxide

X 3. Carbon di oxide

★ 4. Nitrogen di oxide

Question ID: 630680506918

Option 1 ID: 6306801981178

Option 2 ID: 6306801981179

Option 3 ID : **6306801981177** 

Option 4 ID: **6306801981180**Status: **Answered** 

Chosen Option : 2

Q.24 Which of the following statement is correct regarding triaxial test equipment in soil testing?

I. The test equipment specially consists of a high pressure cylindrical cell

II. Cylindrical cell is fitted between the base and the top cap

Anc

Ans X 1. Both I and II

X 2. Neither I nor II

X 3. Only I

Question ID: 630680506893

Option 1 ID: 6306801981079

Option 2 ID: 6306801981080

Option 3 ID: 6306801981077

Option 4 ID: 6306801981078

Status : Answered





Q.25 As per IS456: 2000, the minimum number of longitudinal bars provided in a column shall be \_\_\_\_\_ in rectangular column and \_\_\_\_\_ in circular columns.

Ans

X 1. 7, 4

X 2. 3, 5

**√** 3. **4,** 6

**X** 4. 4, 8

Question ID: 630680506882

Option 1 ID: 6306801981034

Option 2 ID: 6306801981035

Option 3 ID: 6306801981033

Option 4 ID: 6306801981036

Status : **Answered** Chosen Option : **3** 

Q.26 Which of the following is type of filter in purification of water?

I. Slow sand filter

II. Rapid sand filter

III. Pressure filter

Ans

✓ 1. I, II and III

X 2. Only I and III

X 3. Only II and III

X 4. Only I and II

Question ID : **630680506911** 

Option 1 ID: 6306801981152

Option 2 ID: 6306801981151

Option 3 ID : **6306801981150** Option 4 ID : **6306801981149** 

Status : Answered

Chosen Option: 1

Q.27 In the context of painting of new woodwork, which of the following is the process of sealing the knots by suitable means so that the resin from the knots may not destroy the paint film by way of cracking, peeling or brown discoloration?

Ans

★ 1 Stopping

× 2. Priming

✗ 3. Finishing

Question ID: 630680506941

Option 1 ID: 6306801981271

Option 2 ID: 6306801981270

Option 3 ID : **6306801981269** Option 4 ID : **6306801981272** 

Status : Answered





Q.28 Which of the following is disinfection method of water treatment?

I. Boiling of water

II. Treatment with ozone

Ans X 1. Only II

× 2. Neither I nor II

✓ 3. Both I and II

X 4. Only I

Question ID: 630680506913

Option 1 ID: 6306801981158

Option 2 ID: 6306801981160 Option 3 ID: 6306801981159

Option 4 ID : 6306801981157

Status: Answered

Chosen Option: 3

Q.29 The pressure gradient at the exit at which the upward force is just equal to the submerged weight of the soil is called

Ans X 1. Upward gradient

× 2. Submerged gradient

★ 4. Disturbed gradient

Question ID : **630680506891** 

Option 1 ID: 6306801981071

Option 2 ID: 6306801981070

Option 3 ID: 6306801981069

Option 4 ID: 6306801981072 Status: Answered

Chosen Option: 3

As per IS456: 2000, what is the value of  $\frac{x_{umax}}{d}$  for Fe 415 steel?

Ans X 1. 0.364

√ 2. 0.479

X 3. 0.459

**X** 4. 0.531

Question ID: 630680506878

Option 1 ID: 6306801981020

Option 2 ID: 6306801981018

Option 3 ID: 6306801981019

Option 4 ID: 6306801981017

Status : Answered





Q.31 If the height of a hallow cone is 10 m, what will the distance of center of gravity from its vertex?

Ans

X 1. 5.78 m

X 2. 9.65 m

**✓** 3. 6.67 m

X 4. 3.57 m

Question ID: 630680506859

Option 1 ID: 6306801980943 Option 2 ID: 6306801980944

Option 3 ID: 6306801980942 Option 4 ID: 6306801980941

Status : Not Answered

Chosen Option: --

Q.32 For a right circular solid cone, the distance of center of gravity from the base is \_\_\_\_\_\_. (where h = height of solid cone)

Ans

 $\times$  1.  $\frac{3}{5}h$ 

 $\times$  2.  $\frac{1}{6}$ 

 $\times$  3.  $\frac{3}{4}$ h

Question ID: 630680506858

Option 1 ID: 6306801980939

Option 2 ID: 6306801980940

Option 3 ID: 6306801980937

Option 4 ID: 6306801980938

Status: Answered

Chosen Option : 4

Q.33 Which of the following statement is correct regarding critical depth (h<sub>c</sub>)?

I. Critical depth is defined as that depth of flow of water at which the specific energy is maximum

II. The mathematical expression of critical depth is obtained by differentiating the specific energy equation with respect to depth of flow

Ans

X 1. Both I and II

✓ 2. Only II

X 3. Neither I nor II

X 4. Only I

Question ID: 630680506904

Option 1 ID: 6306801981123

Option 2 ID: 6306801981122

Option 3 ID: 6306801981124

Option 4 ID: 6306801981121

Status : Answered



Q.34 \_ is designed for the projects involving many activities with on-time completion.

Ans

✓ 1. Critical path method

× 2. IS code method

X 3. DOE method

X 4. Rankine's method

Question ID: 630680506877 Option 1 ID: 6306801981013 Option 2 ID: 6306801981014 Option 3 ID: 6306801981016 Option 4 ID: 6306801981015

Status: Answered

Chosen Option: 1

Q.35 Sedimentation analysis is used when the soil fraction is finer than \_

Ans

× 1. 85 μ size

× 2. 95μ size

× 3. 100 

µ size

√ 4. 75µ size

Question ID: 630680506887 Option 1 ID: 6306801981056 Option 2 ID: 6306801981054 Option 3 ID: 6306801981053 Option 4 ID: 6306801981055 Status: Answered

Chosen Option: 4

 ${f Q.36}$  In the context of standard penetration test, what is the relation between N and N<sub>o</sub> during correction for overburden? (where N = actual value of penetration resistance;  $N_o$  = corrected value of penetration resistance;  $C_n$  = normalising correction factor)

Ans

$$\checkmark$$
 1.  $N_o = C_n.N$ 

$$\times$$
 2.  $N_o = C_n \cdot N^2$ 

$$\times$$
 3.  $N_o = C_n + N$ 

$$\times$$
 4.  $N_o = \frac{C_n}{N}$ 

Question ID: 630680506895

Option 1 ID: 6306801981086

Option 2 ID: 6306801981088

Option 3 ID: 6306801981087

Option 4 ID: 6306801981085

Status: Answered





Q.37 The process of passing the water through the beds of granular materials is known as \_\_\_\_\_\_.

Ans

✓ 1. Filtration

X 2. Chlorination

X 3. Infiltration

A. Disinfection

Question ID: 630680506910
Option 1 ID: 6306801981146
Option 2 ID: 6306801981145
Option 3 ID: 6306801981147
Option 4 ID: 6306801981148

Status : **Answered** Chosen Option : **1** 

Q.38 Which of the following statement is correct regarding negative skin friction?

I. Negative skin friction is a downward drag acting on a pile due to the downward movement of the surrounding compressible soil relative to the pile

II. The magnitude of negative friction for granular soil is 'p.c.L<sub>f</sub>' (where p = perimeter of the pile, c = cohesion of soil in zone of L<sub>f</sub>, L<sub>f</sub> = depth of fill or soil which is moving vertically)

Ans

X 1. Only II

X 2. Both I and II

× 4. Neither I nor II

Question ID: 630680506897 Option 1 ID: 6306801981094 Option 2 ID: 6306801981095 Option 3 ID: 6306801981093 Option 4 ID: 6306801981096

Status : Answered Chosen Option : 2

Q.39 Which of the following statement is correct regarding 'Air quality index'?

I. The Air Quality index is also referred as the Pollutant Standard Index

II. Air quality index is a number used by the air quality monitoring agencies to inform the public about the quality of air in their vicinity

Ans

X 1. Only II

✓ 2. Both I and II

X 3. Neither I nor II

★ 4. Only I

Question ID: 630680506916

Option 1 ID : **6306801981170** Option 2 ID : **6306801981171** Option 3 ID : **6306801981172** 

Option 4 ID: **6306801981169**Status: **Answered** 





 $\textbf{Q.40} \quad \text{A cylinder of soil fails under an axial vertical stress of 140 kN/m}^2, \text{ when it is laterally unconfined, the failure plane}$ makes an angle of  $45^\circ$  with the horizontal. What will be the value of cohesion of soil sample?

Ans

× 1. 60 kN/m<sup>2</sup>

× 2. 80 kN/m<sup>2</sup>

√ 3. 70 kN/m<sup>2</sup>

× 4. 50 kN/m<sup>2</sup>

Question ID: 630680506894

Option 1 ID: 6306801981083

Option 2 ID: 6306801981081

Option 3 ID: 6306801981082

Option 4 ID: 6306801981084

Status: Answered

Chosen Option: 3

Ribbed bolts are also known as \_\_\_\_\_.

Ans

X 1. Turned bolts

✓ 2. Fluted bolts

X 3. Unfinished bolts

★ 4. High strength bolts

Question ID: 630680506884

Option 1 ID: 6306801981041

Option 2 ID: 6306801981043

Option 3 ID: 6306801981042

Option 4 ID: 6306801981044

Status: Not Answered

Chosen Option: --

Q.42 Which of the following statement is correct regarding 'Plywood'?

I. A wood panel glued under pressure from an odd number of layers of veneers is known as plywood

II. BWR grade and MR grade is classification of plywood based on grade

Ans X 1. Only I

× 2. Only II

X 3. Neither I nor II

✓ 4. Both I and II

Question ID: 630680506935

Option 1 ID: 6306801981245

Option 2 ID: 6306801981246

Option 3 ID: 6306801981248

Option 4 ID: 6306801981247

Status: Not Answered





Q.43 Stopping distance depends on which of the following factor?

I. Efficiency of brakers

II. Speed of vehicle

III. Total reaction time of driver

Ans

√ 1. I, II and III

★ 2. Only I and II

X 3. Only II and III

A. Only I and III

Question ID: 630680506921

Option 1 ID: 6306801981192

Option 2 ID: 6306801981189

Option 3 ID : 6306801981190

Option 4 ID: **6306801981191**Status: **Answered** 

Chosen Option: 3

Q.44 In the context of water distribution system, which of the following is also known as tree system?

Ans

★ 1. Ring system

X 2. Radial system

X 4. Grid iron system

Question ID: 630680506912

Option 1 ID: 6306801981155

Option 2 ID : 6306801981156 Option 3 ID : 6306801981153

Option 4 ID : **6306801981154** 

Status : Answered

Chosen Option: 2

Q.45 Which of the following type of leveling is also known as fly leveling?

Ans

★ 1. Cross-sectioning

× 2. Precise leveling

Question ID: 630680506932

Option 1 ID: 6306801981234

Option 2 ID: 6306801981236

Option 3 ID: 6306801981235 Option 4 ID: 6306801981233

Status : **Answered** 





Q.46 The analysis of a two way slab is done using which of the following method?

I. Marcus's method

II. Pigeaud's method

Ans 1. Only II

X 2. Neither I nor II

✓ 3. Both I and II

🗙 4. Only I

Question ID: 630680506883

Option 1 ID: 6306801981038

Option 2 ID: 6306801981040

Option 3 ID: 6306801981039

Option 4 ID: 6306801981037

Status: Answered

Chosen Option: 3

Q.47 As per BIS (Bureau of Indian standards), the aggregate impact testing machine consists of a metal base and a cylindrical steel cup of internal diameter \_\_\_\_\_ and depth \_\_\_\_\_ in which the aggregate specimen is placed.

Ans X 1. 102 mm, 40 mm

2. 102 mm, 50 mm

X 3. 90 mm, 50 mm

× 4. 150 mm, 60 mm

Question ID: 630680506928
Option 1 ID: 6306801981218
Option 2 ID: 6306801981220
Option 3 ID: 6306801981217
Option 4 ID: 6306801981219
Status: Not Answered
Chosen Option: --

Q.48 Water proofing material should have which of the following properties?

Ans X 1. It should be dimensionally unstable

2. It should be subjected with deliquescent salts

★ 4. It should be pervious

Question ID : 630680506939
Option 1 ID : 6306801981262
Option 2 ID : 6306801981263
Option 3 ID : 6306801981264
Option 4 ID : 6306801981261
Status : Answered





**Q.49** Which of the following type of stresses is produced due to temperature variation in concrete pavement?

I. Warping stresses

II. Frictional stresses

Ans V1. Both I and II

X 2. Neither I nor II

X 3. Only I

x 3. Only I

x 3. Only I

X 4. Only II

Question ID : **630680506927** Option 1 ID : **6306801981215** Option 2 ID : **6306801981216** 

Option 3 ID : **6306801981213** Option 4 ID : **6306801981214** 

Status : **Answered** 

Chosen Option: 1

**Q.50** The ratio of plastic moment ' $M_p$ ' of a member by yield strength ' $\sigma_y$ ' of its material is called \_\_\_\_\_.

Ans X 1 Semi plastic section modulus

× 2. Elastoplastic section modulus

✓ 3. Plastic section modulus

× 4. Elastic section modulus

Question ID: 630680506885

Option 1 ID: 6306801981048

Option 2 ID: 6306801981047

Option 3 ID: 6306801981045

Option 4 ID: 6306801981046

Status : **Answered** Chosen Option : **3** 

Q.51 Which of the following statement is correct regarding the CBR test in highway engineering?

I. The CBR test is an empirical penetration test

II. The CBR test is carried out in the laboratory on soil specimens compacted to desired density and soaked in water

Ans X 1. Neither I nor II

X 2. Only II

X 3. Only I

✓ 4. Both I and II

Question ID: 630680506925

Option 1 ID: 6306801981208

Option 2 ID: 6306801981206

Option 3 ID: 6306801981205

Option 4 ID: 6306801981207

Status : Not Answered





Q.52 When overtaking sight distance cannot be provided, \_\_\_\_\_ is provided to give limited overtaking opportunities to fast vehicles

Ans

★ 1 head light sight distance

★ 2. stopping sight distance

X 3. safe overtaking sight distance

Question ID: 630680506920 Option 1 ID: 6306801981185 Option 2 ID: 6306801981187 Option 3 ID: 6306801981188

Option 4 ID: **6306801981186** Status: **Answered** 

Chosen Option: 4

 $\textbf{Q.53} \quad \text{As per IS456: 2000, what is period of removal of props to beam and arches which is spanning upto 6 m?}$ 

Ans

X 1. 21 days

× 2. 7 days

★ 3. 3 days

4. 14 days

Question ID: 630680506942

Option 1 ID: 6306801981273

Option 2 ID: 6306801981275

Option 3 ID: 6306801981276 Option 4 ID: 6306801981274

Status : **Answered** 

Chosen Option: 2

Q.54 Which of the following method is used to determine in-situ density of soil?

I. Sand replacement method

II. Core cutter method

Ans X 1. Neither I nor II

× 2. Only I

✓ 3. Both I and II

★ 4. Only II

Question ID: 630680506888

Option 1 ID: 6306801981060

Option 2 ID: 6306801981057

Option 3 ID: 6306801981059

Option 4 ID: 6306801981058

Status : **Answered** 



**Q.55** In the context of soil classification system, what is the A-line equation in Casagrande's plasticity chart? (where,  $I_p = p$  plasticity index  $w_L = p$  liquid limit)

Ans  $\times$  1.  $I_p = 0.79 (w_L-20)$ 

 $\times$  2.  $I_p = 0.89 (w_L + 30)$ 

 $\checkmark$  3.  $I_p = 0.73 (w_L - 20)$ 

 $\times$  4.  $I_p = 0.56 (w_L - 20)$ 

Question ID: 630680506890

Option 1 ID : **6306801981065** 

Option 2 ID: 6306801981068

Option 3 ID: 6306801981066

Option 4 ID: **6306801981067**Status: **Answered** 

Chosen Option: 3

**Q.56** A solid shaft of 'D' mm diameter is used to transmit torque, if maximum shear stress induced to the shaft is ' $\tau$ ' N/mm<sup>2</sup>, what will the maximum torque transmitted by the shaft?

Ans  $\times$  1.  $\pi\tau$ .  $D^3N - mm$ 

 $\times$  2.  $\frac{\pi}{16}\tau$ .  $D^2N - mm$ 

 $\sqrt{3}$  3.  $\frac{\pi}{16}\tau$ .  $D^3N - mm$ 

 $\times$  4.  $\frac{\pi}{4}\tau$ .  $D^3N - mm$ 

Question ID : **630680506866** 

Option 1 ID: 6306801980969

Option 2 ID: 6306801980971

Option 3 ID: 6306801980972

Option 4 ID: 6306801980970 Status: Answered

Chosen Option: 3

Q.57 Which of the following is primary air pollutants?

Ans X 1. O<sub>3</sub>

✓ 2. Oxides of sulphur

✗ 3. Peroxy-aceyle-nitrate

**★** 4. H<sub>2</sub>SO<sub>4</sub>

Question ID: 630680506917

Option 1 ID: 6306801981174

Option 2 ID : 6306801981176

Option 3 ID: 6306801981175

Option 4 ID: 6306801981173

Status : Answered



Q.58 In which of the following fluid the shear stress is directly proportional to the rate of shear strain?

Ans X 1. Non-Newtonian fluid

✓ 2. Newtonian fluid

X 3. Ideal fluid

X 4. Ideal plastic fluid

Question ID: 630680506898

Option 1 ID: 6306801981098

Option 2 ID: 6306801981097

Option 3 ID: 6306801981099 Option 4 ID: 6306801981100

Status : Answered

Chosen Option : 2

Q.59 Which of the following formula we can use to calculate the cement content in mix design?

Ans

$$✓$$
 1. Cement content =  $\frac{water used}{w/c ratio}$ 

× 2. Cement content = w/c ratio × water used

$$\times$$
 3. Cement content =  $\frac{\text{w/c ratio}}{\text{water used}}$ 

★ 4. Cement content = w/c ratio – water used

Question ID: 630680506872

Option 1 ID: 6306801980995

Option 2 ID: 6306801980993

Option 3 ID: 6306801980994

Option 4 ID: 6306801980996

Status : **Answered** 

Chosen Option: 1

Q.60 Which of the following is correct relation between shear force (F) and bending moment (M)?

Ans

$$\times$$
 1.  $M = \frac{dF}{dx}$ 

$$\checkmark$$
 2.  $F = \frac{dM}{dx}$ 

$$\times$$
 3.  $F = \frac{d^2M}{dx^2}$ 

$$\times$$
 4.  $M = \frac{d^2F}{dx^2}$ 

Question ID: 630680506861

Option 1 ID: 6306801980949

Option 2 ID: 6306801980950

Option 3 ID: 6306801980951

Option 4 ID: 6306801980952

Status : Answered





Q.61 As per IS303 and 10701, what is recommended thickness (mm) of '3 ply' plywood board for structural purpose?

Ans

X 1. 16 mm

√ 2. 4 mm

X 3. 9 mm

X 4. 6 mm

Question ID: 630680506936

Option 1 ID: 6306801981250

Option 2 ID: 6306801981251

Option 3 ID: 6306801981249

Option 4 ID: 6306801981252

Status: Not Answered

Chosen Option: --

Q.62 Which of the following is dimension less number?

I. Froude's number

II. Euler's number

Ans

X 1. Only II

× 2. Neither I nor II

✓ 3. Both I and II

★ 4. Only I

Question ID: 630680506902

Option 1 ID: 6306801981114

Option 2 ID: 6306801981116

Option 3 ID: 6306801981115 Option 4 ID: 6306801981113

Status: Answered

Chosen Option: 3

Q.63 As per IS456: 2000, for 28 days age at loading, what will be the creep coefficient?

Ans X 1. 1.9

X 2. 1.1

X 3. 2.6

**√** 4. 1.6

Question ID: 630680506875

Option 1 ID: 6306801981008

Option 2 ID: 6306801981007

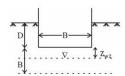
Option 3 ID: 6306801981005 Option 4 ID: 6306801981006

Status : **Answered** 

Chosen Option :  $\boldsymbol{2}$ 



**Q.64** According to IS code method, what is the formula of reduction factor during effect of water table on bearing capacity of soil. (where,  $R_w$  = reduction factor)



Ans

$$\times$$
 2.  $R_{\rm w} = 0.5 \left( 1 + \frac{Z_{\rm w2}}{D} \right)$ 

X 3. 
$$R_w = 0.5 \left(1 - \frac{Z_{w2}}{B}\right)$$

$$\times$$
 4.  $R_w = 0.5 \left(\frac{Z_{w2}}{D}\right)$ 

Question ID: 630680506896

Option 1 ID: 6306801981092

Option 2 ID: 6306801981091

Option 3 ID: 6306801981090

Option 4 ID: **6306801981089**Status: **Answered** 

Chosen Option: 1

Q.65 \_\_\_\_\_ can be defined as 'the rise of water level, which takes place due to the transformation of the unstable shooting flow to the stable streaming flow'.

Ans

1. Hydraulic jump

× 2. Hydrograph

X 3. Critical depth

X 4. Alternate depth

Question ID : 630680506906

Option 1 ID: 6306801981131

Option 2 ID: 6306801981132

Option 3 ID: 6306801981129

Option 4 ID: 6306801981130

Status : Answered





Q.66 Which of the following statement is correct regarding activated sludge process?

I. The activated sludge process provides an method of treating either raw sewage or settled sewage

II. The sewage effluent from primary sedimentation tank is utilised in activated sludge process

Ans

X 1. Only I

✓ 2. Both I and II

X 3. Only II

X 4. Neither I nor II

Question ID: 630680506915

Option 1 ID: 6306801981165

Option 2 ID: 6306801981167

Option 3 ID : **6306801981166** 

Option 4 ID: 6306801981168

Status: Answered

Chosen Option: 2

Q.67 w/c ratio mentioned in table 5 of which of the following IS code?

Ans

X 1. IS 800

√ 2. IS 456

X 3. IS 303

X 4. IS 1893

Question ID: 630680506873

Option 1 ID: 6306801980999

Option 2 ID: 6306801980997

Option 3 ID: 6306801980998

Option 4 ID: 6306801981000

Status : **Answered** 

Chosen Option : 2

**Q.68** Which of the following equation means 'the free surface of water is parallel to the bed of the channel'? (where  $\frac{dh}{dx}$  = variation of the water depth along the bottom of the channel)

Ans

$$\times$$
 1.  $\frac{dh}{dx}$  = negative

$$\times$$
 2.  $\frac{dh}{dx} = positive$ 

$$\times$$
 3.  $\frac{dh}{dx} = \infty$ 

$$\checkmark 4. \frac{dh}{dx} = 0$$

Question ID: 630680506905

Option 1 ID: 6306801981127

Option 2 ID: 6306801981126

Option 3 ID: 6306801981128

Option 4 ID : **6306801981125** 

Status: Answered





Q.69 In the context of sedimentation tank, the ratio of the 'flowing through period' to the detention period is called \_

Ans ★ 1. Sludge efficiency

✓ 2. Displacement efficiency

★ 3. Detention efficiency

★ 4. Skimming through efficiency

Question ID: 630680506914 Option 1 ID: 6306801981163 Option 2 ID: 6306801981161 Option 3 ID: 6306801981162 Option 4 ID: 6306801981164

Status: Answered

Chosen Option: 2

- Arrange the component of flexible pavement structure from bottom to the top.
  - I. Granular base course
  - II. Bituminous binder
  - III. Granular sub-base cum drainage layer
  - IV. Prepared soil subgrade

Ans X 1. III, II, I, IV

× 2. III, II, IV, I

**X** 3. IV, III, II, I

Question ID: 630680506924

Option 1 ID: 6306801981203

Option 2 ID: 6306801981201

Option 3 ID: 6306801981202 Option 4 ID: 6306801981204

Status: Answered

Chosen Option: 4

- Which of the following statement is correct regarding 'HYSD' bars?
  - I. HYSD bars have lugs, ribs or deformation on the surface
  - II. HYSD bar have a definite yield point

X 1. Both I and II

× 2. Neither I nor II

3. Only I

X 4. Only II

Question ID: 630680506870

Option 1 ID: 6306801980987

Option 2 ID: 6306801980988

Option 3 ID: 6306801980985

Option 4 ID: 6306801980986 Status: Answered





Q.72 A steel plate of width 80 mm and of thickness 15 mm is bent into a circular arc of radius 8 m, what will be the maximum stress induced in plate?

Ans

× 1. 150 N/mm<sup>2</sup>

√ 2. 187.5 N/mm<sup>2</sup>

**×** 3. 200 N/mm<sup>2</sup>

× 4. 189.5 N/mm<sup>2</sup>

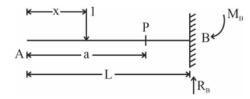
Question ID : 630680506864

Option 1 ID: 6306801980964

Option 2 ID: 6306801980961

Option 4 ID: 6306801980962

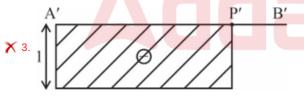
Q.73 For a given cantilever beam, what will be the influence line diagram for bending moment?

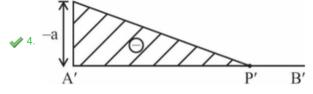


Ans









Option 3 ID: 6306801980963 Status: Not Answered

Chosen Option: --

Question ID: 630680506868 Option 1 ID: 6306801980977 Option 2 ID: 6306801980978

Option 3 ID: 6306801980980

Option 4 ID: 6306801980979

Status: Answered





**Q.74** According to dilution method, which of the following is correct formula for  $BOD_5$ ? (where  $BOD_5 = BOD$  of 5 days)

Ans

✓ 1. BOD<sub>5</sub> = loss of oxygen in mg/l × Dilution ratio

 $\times$  2. BOD<sub>5</sub> =  $\frac{\text{Dilutionratio}}{\text{lossofoxygeninmg/l}}$ 

 $\times$  3. BOD<sub>5</sub> =  $\frac{\text{lossofoxygeninmg/l}}{\text{Dilutionratio}}$ 

 $\times$  4. BOD<sub>5</sub> = Dilution ratio + loss of oxygen in mg/l

Question ID: 630680506908
Option 1 ID: 6306801981138
Option 2 ID: 6306801981139
Option 3 ID: 6306801981137
Option 4 ID: 6306801981140

Status: Answered

Chosen Option: 3

 $^{Q.75}$  Which of the following is assumption of Bernoulli's equation?

I. The fluid is ideal

II. The flow is unsteady

III. The flow is incompressible

Ans

X 1. Only I and II

✓ 2. Only I and III

X 3. Only II and III

× 4. I, II and III

Question ID: 630680506901

Option 1 ID: 6306801981109

Option 2 ID : 6306801981111

Option 3 ID : 6306801981110

Option 4 ID: 6306801981112

Status : Answered



Q.76 In case of a perfectly saturated soil, the voids are completely filled with \_\_\_

I. air

II. water

Ans X 1. Neither I nor II

X 2. Both I and II

X 3. Only I

✓ 4. Only II

Question ID: 630680506889

Option 1 ID: 6306801981064 Option 2 ID: 6306801981063

Option 3 ID: 6306801981061 Option 4 ID: 6306801981062

Status: Answered

Chosen Option: 4

Which of the following is correct formula for closing error in traversing? (where,  $\sum L = \text{algebraic sum of latitudes}$ ,  $\sum D = \text{algebraic sum of latitudes}$ ) Q.77 = algebraic sum of departure, e = closing error)

Ans

$$\times$$
 1.  $e = \sqrt{(\sum L) - (\sum D)}$ 

$$\times$$
 2.  $e = \sqrt{(\sum L)^2 - (\sum D)^2}$ 

$$\times$$
 3.  $e = \sqrt{(\sum L) + (\sum D)}$ 

$$\checkmark$$
 4.  $e = \sqrt{(\sum L)^2 + (\sum D)^2}$ 

Question ID: 630680506933

Option 1 ID: 6306801981240

Option 2 ID: 6306801981237

Option 3 ID: 6306801981239 Option 4 ID: 6306801981238

Status: Answered

Chosen Option: 4

The minimum distance open to the vision of the driver of a vehicle intending to overtake slow vehicle ahead with safety Q.78 against the traffic of opposite direction is known as

Ans

★ 1 head light sight distance

2. minimum overtaking sight distance

3. minimum intermediate sight distance

\* 4. minimum stopping sight distance

Question ID: 630680506922

Option 1 ID: 6306801981195

Option 2 ID: 6306801981194

Option 3 ID: 6306801981193

Option 4 ID: 6306801981196

Status: Answered





Q.79 The consolidation test data are used to determine which of the following property of soil? I. Coefficient of consolidation II. Coefficient of permeability III. Bearing capacity of soil Ans ✓ 1. Only I and II X 2. Only II and III X 3. I, II and III ★ 4. Only I Question ID: 630680506892 Option 1 ID: 6306801981073 Option 2 ID: 6306801981074 Option 3 ID: 6306801981076 Option 4 ID: 6306801981075 Status: AnsweredChosen Option : 1 Q.80 Water proofing treatments are divided into which of the following categories? I. Integral water proofing II. Surface treatment Ans ✓ 1. Both I and II × 2. Only II X 3. Only I X 4. Neither I nor II Question ID: 630680506938 Option 1 ID: 6306801981259 Option 2 ID: 6306801981258 Option 3 ID: 6306801981257 Option 4 ID: 6306801981260 Status: Answered Chosen Option: 1 Q.81 The ratio of tensile stress to the corresponding strain is a constant and this ratio is known as \_\_\_\_ Ans 1 Modulus of elasticity

X 2. Section modulus

★ 3. Modulus of rigidity

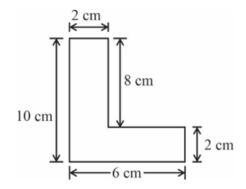
X 4. Poisson's ratio

Question ID: 630680506869
Option 1 ID: 6306801980981
Option 2 ID: 6306801980984
Option 3 ID: 6306801980982
Option 4 ID: 6306801980983

Status : **Answered** 



Q.82 What will be center of gravity of the given L – section shown in figure?



Ans

× 1. (1.85 cm, 2.83 cm)

√ 2. (1.86 cm, 3.86 cm)

× 3. (2.96 cm, 5.32 cm)

× 4. (2.44 cm, 4.33 cm)

Question ID: 630680506860

Option 1 ID: 6306801980946

Option 2 ID: 6306801980947

Option 3 ID: 6306801980948

Option 4 ID: **6306801980945** Status: **Answered** 

Chosen Option: 2

Q.83 The maximum strain in concrete at the outermost compression fibre is taken as \_\_\_\_\_ in bending, as per IS456: 2000.

Ans X 1. 0.0047

X 2. 0.0096

**✓** 3. 0.0035

X 4. 0.0038

Question ID: 630680506879

Option 1 ID : 6306801981022

Option 2 ID: 6306801981023

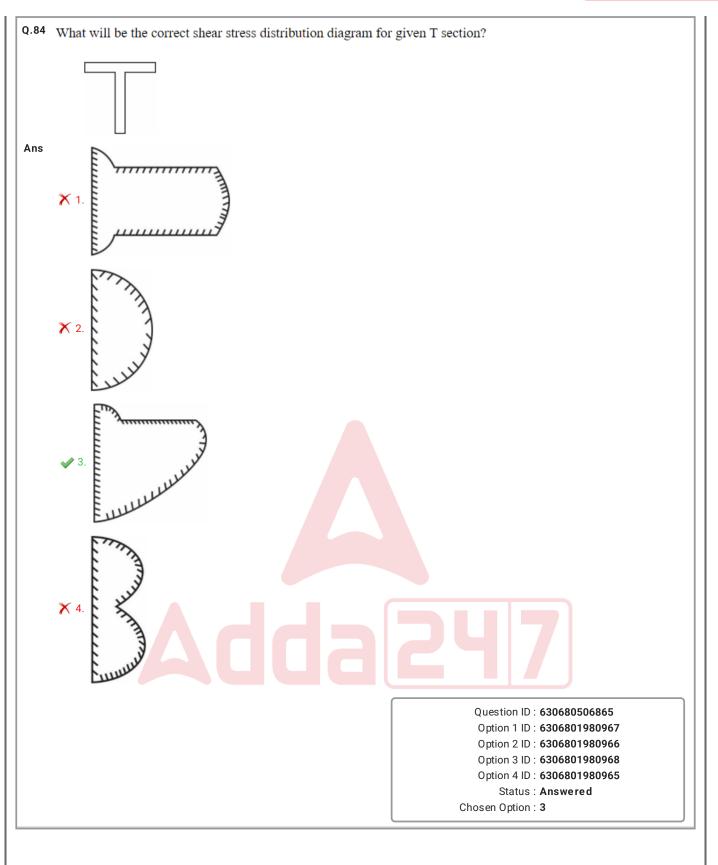
Option 3 ID: 6306801981021

Option 4 ID: 6306801981024

Status : Answered











Which of the following is correct representation of Poisson's ratio ( $\mu$ )?

Ans

✓ 1.  $\mu = \frac{Lateral\ strain}{Longitudinal\ strain}$ 

 $\times$  2.  $\mu = \frac{\text{Lateral stress}}{\text{Longitudinal strain}}$ 

 $\times$  3.  $\mu = \frac{\text{Lateral strain}}{\text{Longitudinal stress}}$ 

 $\times$  4.  $\mu = \frac{Lateral\ stress}{Longitudinal\ stress}$ 

Question ID: 630680506863

Option 1 ID: 6306801980960

Option 2 ID: 6306801980957

Option 3 ID: 6306801980958

Option 4 ID: 6306801980959

Status: Answered

