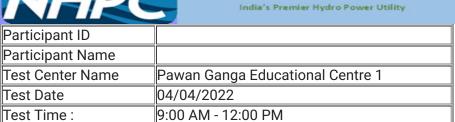




### **NHPC Limited** (A Government of India Enterprise)

Mini-Ratna Category-I PSU





Section: General Awareness

Subject

Q.1 Which of the following dances is performed by members of the Adi tribe of Arunachal

Junior Engineer (Civil)

Ans X A. Santhali

X B. Dhanger

C. Tapu

X D. Bhagoria

Question ID: 1034358788 Status: Marked For Review

Chosen Option : D

Q.2 What is the minimum support price of gram per quintal in 2021-22?

**Ans X** A. ₹5,454

X B. ₹4,997

X C. ₹5,400

**⊘** D. ₹5,100

Question ID: 1034358792 Status: Not Answered

Chosen Option: --

\_ helps our nails grow strong and resilient. Q.3 \_

Ans

A. Protein

X B. Fruits

X C. Fat

X D. Fibre

Question ID: 1034358797

Status: Answered

Chosen Option: A

## By which of the following Amendment Acts was the word 'Rajpramukh' omitted from Article 283 of the Constitution of India? X A. Constitution (Fortieth Amendment) Act, 1976 Ans B. Constitution (Seventh Amendment) Act, 1956 X C. Constitution (Forty-fourth Amendment) Act, 1978 X D. Constitution (Fifteenth Amendment) Act, 1963 Question ID: 1034358811 Status: Not Answered Chosen Option: --Q.5 भारत के संविधान का कौन सा अनुच्छेद बिजली पर करों से छूट से संबंधित है? 🗶 A. अनुच्छेद 275 🗶 B. अनुच्छेद 278 🗶 C. अनुच्छेद 257 🥓 D. अनुच्छेद 287 Question ID: 1034358810 Not Attempted and Marked For Review Chosen Option: --Q.6 According to the economic survey 2021-22 what was the first advance estimates suggestion of GDP 2021-22? Ans X A. 7.4% X B. 10.98% ✓ C. 9.2% X D. 6.8% Question ID: 1034358793 Status: Not Answered Chosen Option: --Q.7 In which of the following oceans are Alaska and Hawaii islands located? X A. Indian Ocean X B. Arctic Ocean X C. Atlantic Ocean D. Pacific Ocean Question ID: 1034358800 Status: Answered Chosen Option: B

| Q.8  | दीक्षाभूमि किस राज्य में स्थित है, जहां डॉ. अम्बेडकर ने बौद्ध धर्म अपनाया था?   |  |
|------|---|--|
| Ans  | <b>৵</b> A. महाराष्ट्र  |  |
|      | 🗶 B. गुजरात   |  |
|      | 🗶 C. कर्नाटक  |  |
|      | 🗶 D. केरल   |  |
|      |   | 0 11 12 12012                                  |
|      |   | Question ID : 1034358791 Status : Not Answered |
|      |   | Chosen Option :                                |
|      |   | •  |
| Q.9  | 2011 की जनगणना के अनुसार, निम्नलिखित में से कौन सा भारतीय मेट्रो शहर सबसे<br>है?  | कम आबादी वाला शहर                              |
| Ans  | 🗙 A. दिल्ली   |  |
|      | <b>৵</b> B. चेन्नई  |  |
|      | 🗶 C. मुंबई  |  |
|      | 🗶 D. कोलकाता  |  |
|      |   | 0 11 12 12012222                               |
|      |   | Question ID : 1034358798 Status : Not Answered |
|      |   | Chosen Option :                                |
|      |   |  |
| Q.10 | RBI publishes figures for four alternative measures of money supply, viz M4. Which of the aforementioned has the definition as sum of currency held by the public and net demand deposits held by commercial banks? | (notes plus coins)                             |
| Ans  | <b>※</b> A. M3  |  |
|      | <b>★</b> B. M2  |  |
|      | <b>X</b> C. M4  |  |
|      | <b>✓</b> D. M1  |  |
|      |   | Question ID : 1034358794 Status : Not Answered |
|      |   | Chosen Option :                                |
|      | For which book did Damon Galgut win the Booker Prize for 2021?  |  |
| Ans  | <ul><li>✓ A. The Promise</li><li>✗ B. Great Circle</li></ul>  |  |
|      |   |  |
|      | <ul><li>★ C. A Passage North</li><li>★ D. Bewilderment</li></ul>  |  |
|      | D. Bewilderment   |  |
|      |   | Question ID : 1034358807                       |
|      |   | Status : Not Answered                          |
|      |   | Chosen Option :                                |
|      |   |  |
|      |   |  |
|      |   |  |

| ×          | A. 5 years  B. 10 years  C. 12 years  D. 8 years   | Overstion ID 4 400 40 50000                                  |
|------------|--|--|
| ×          |  | Oversting ID 44044550000                                     |
| ×          |  | Overstion ID 4 400 40 50000                                  |
|            | C D. 8 years   | Out at in 10 400 40 50000                                    |
| Q.13 निम्न |  | Oversting ID 4 400 40 50000                                  |
| Q.13 निम्न |  | O  |
| Q.13 निम्न |  | Question ID : 1034358803<br>Status : Not Answered            |
| Q.13 निम्न |  | Chosen Option:   |
| Q.13 निम्न |  |  |
|            | ालिखित में से कौन सा संगीत वाद्ययंत्र 'अवनद्ध वाद्य' वाद्ययंत्र का उदाहरण नहीं :<br>-                      | है?  |
|            | ( A. मृदंग   |  |
|            | ८ B. ताशा  |  |
| -          | 🌶 C. चिकारा  |  |
| ×          | ( D. डागर  |  |
|            |  | Question ID : 1034358789                                     |
|            |  | Status: Not Answered   |
|            |  | Chosen Option :  |
| ×          | B. Force is a scalar quantity. C. Acceleration is a vector quantity. D. Polarisation is a vector quantity. |  |
|            |  | Question ID : 1034358795 Status : Answered Chosen Option : B |
|            | o has been elected to the International Law Commission for a five-   | year term starting   |
|            | n 1 January 2023?  ( A. Dinesh Sharma  |  |
|            | ( B. Naveen Mahajan  |  |
|            | C. Arun Mishra   |  |
|            | ▶ D. Bimal Patel   |  |
| •          | D. Billian atci  |  |
|            |  | Question ID: 1034358806                                      |
|            |  | Status: Not Answered   |
|            |  | Chosen Option :  |

| 1034358804<br>Answered<br>A |
|-----------------------------|
| Answered                    |
| Answered                    |
| Answered<br>A               |
| Answered<br>A               |
| Answered                    |
|                             |
| 1034358808                  |
| 1034358808                  |
| 1034358808                  |
| 1034358808                  |
| 1034358808                  |
| 1034358808                  |
| 1034358808                  |
|                             |
| Not Answered                |
|                             |
| 1034358801<br>Answered<br>C |
|                             |
|                             |
|                             |
|                             |
|                             |
|                             |
| 1034358790                  |
|                             |

# Q.20 Who has authored a new book titled 'India vs UK: The Story of an Unprecedented Diplomatic A. Syed Akbaruddin Ans X B. Kailash Satyarthi X C. Maroof Raza X D. Abhijit Banerjee Question ID: 1034358809 Status: Not Answered Chosen Option: --Q.21 निम्नलिखित में से कौन सा कथन महात्मा गांधी के बारे में गलत है? 🗙 A. उनका जन्म 2 अक्टूबर 1869 को पोरबंदर में हुआ था। 🔀 B. जनवरी 1915 में वे दक्षिण अफ्रीका से भारत लौटे। ✔ C. 1927 में उन्हें भारतीय राष्ट्रीय कांग्रेस का अध्यक्ष चुना गया। 🗙 D. उन्होंने 1917 में खेड़ा जिले के किसानों का समर्थन करने के लिए एक सत्याग्रह का आयोजन किया। Ouestion ID: 1034358805 Status: Answered Chosen Option : C Q.22 In February2022, who defeated the reigning world champion Magnus Carlsen during the online tournament Airthings Masters? A. Rameshbabu Praggnanandhaa Ans X B. Dommaraju Gukesh X C. Abhijeet Gupta X D. Bharath Subramaniyam Question ID: 1034358817 Status: Answered Chosen Option: A Q.23 मौर्य साम्राज्य चार प्रांतों में विभाजित था। निम्नलिखित में से कौन सा प्रांत मौर्य प्रांतों में से <mark>एक</mark> नहीं था? 🟋 A. तोसाली \chi B. उज्जयिनी X D. सुवर्णगिरि Question ID: 1034358802 Status: Marked For Review Chosen Option: D

|      |  | II  |
|------|--|---|
| Q.24 | In India, who appoints the Special Officer for linguistic minorities according the Constitution of India?                      | ording to Article 35UB                            |
| Ans  | ✓ A. President   |   |
|      | X B. Prime Minister  |   |
|      | ★ C. Vice President  |   |
|      | X D. Union Minister for Minority Affairs   |   |
|      |  |   |
|      |  | Question ID : 1034358812<br>Status : Answered     |
|      |  | Chosen Option : A                                 |
|      |  |   |
|      | Bread mould, also known as aspergillus, is an example of:  |   |
| Ans  | X A. protozoa  |   |
|      | X B. algae   |   |
|      | C. bacteria  |   |
|      | ✓ D. fungi   |   |
|      |  | Question ID : 1034358796                          |
|      |  | Status : Answered                                 |
|      |  | Chosen Option: <b>D</b>                           |
|      |  |   |
| Q.26 | भारत के संविधान की किस अनुसूची में असम, मेघालय, त्रिपुरा और <mark>मिजोरम राज्यों</mark><br>प्रशासन के लिए प्रावधान किए गए हैं? | में जनजातीय क्षेत्रों के                          |
| Ans  | प्रशासन के लिए प्रावधान किए गए ह <i>र</i> X A. तीसरी अनुसूची   |   |
| Alla | <ul><li>✓ B. छठी अनुसूची</li></ul>   |   |
|      | 🗙 C. चौथी अनुसूची  |   |
|      |  |   |
|      | 🗶 D. पांचवी अनुसूची  |   |
|      |  | Question ID : 1034358813                          |
|      |  | Status : Answered                                 |
|      |  | Chosen Option : B                                 |
| 0.27 | Which of the following rivers has its origin in Madhya Pradesh, flows i  | n Painethan and                                   |
| Q.27 | finally falls into the Arabian Sea?  | Trajustian and                                    |
| Ans  | ✓ A. Mahi  |   |
|      | X B. Chambal   |   |
|      | X C. Yamuna  |   |
|      | X D. Banas   |   |
|      |  |   |
|      |  | Question ID : 1034358799                          |
|      |  | Status : <b>Answered</b> Chosen Option : <b>A</b> |
|      |  | Onoscii Option . A                                |
|      |  |   |
|      |  |   |
|      |  |   |

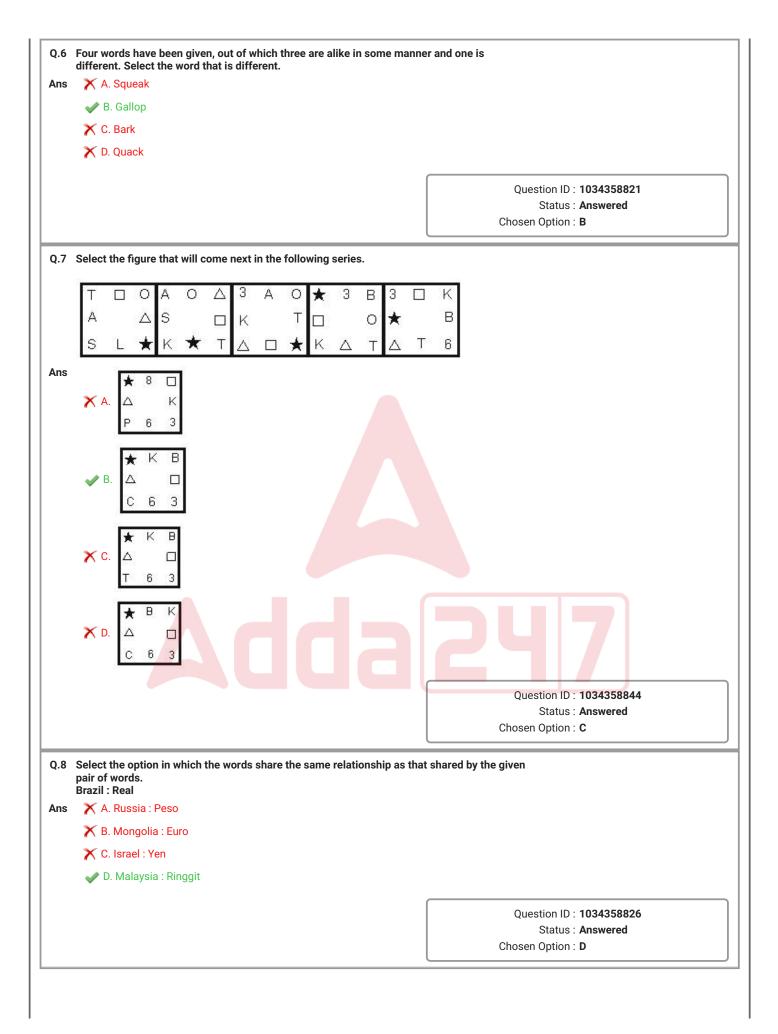
## Q.28 Who is the winner of the Australian Open 2022 Men's singles event? X A. Novak Djokovic Ans X B. Daniil Medvedev C. Rafael Nadal X D. Roger Federer Question ID: 1034358816 Status: Answered Chosen Option: C Q.29 ओलंपिक के लिए क्वालीफाई करने वाली पहली भारतीय फ़ेंसर (fencer) कौन बनीं? 🗙 A. दाभाडे खुशी Ans 🗙 B. अनुष्का धालीवाल \chi D. कबित देवी Question ID: 1034358815 Status: Answered Chosen Option: B Q.30 Which of the following teams was the winner of the Maulana Abul Kalam Azad Trophy 2021? X A. Bombay University B. Punjab University X C. Delhi University X D. Guru Nanak Dev University Question ID: 1034358814 Status: Not Answered Chosen Option: --Section: Reasoning Q.1 Select the word-pair in which the two words share a different relationship from that shared by the two words in the rest of the word-pairs. X A. Barrier : Assistance X B. Allure : Repulse C. Consolidate : Strengthen X D. Despair: Hope Question ID: 1034358823 Status: Answered Chosen Option: C

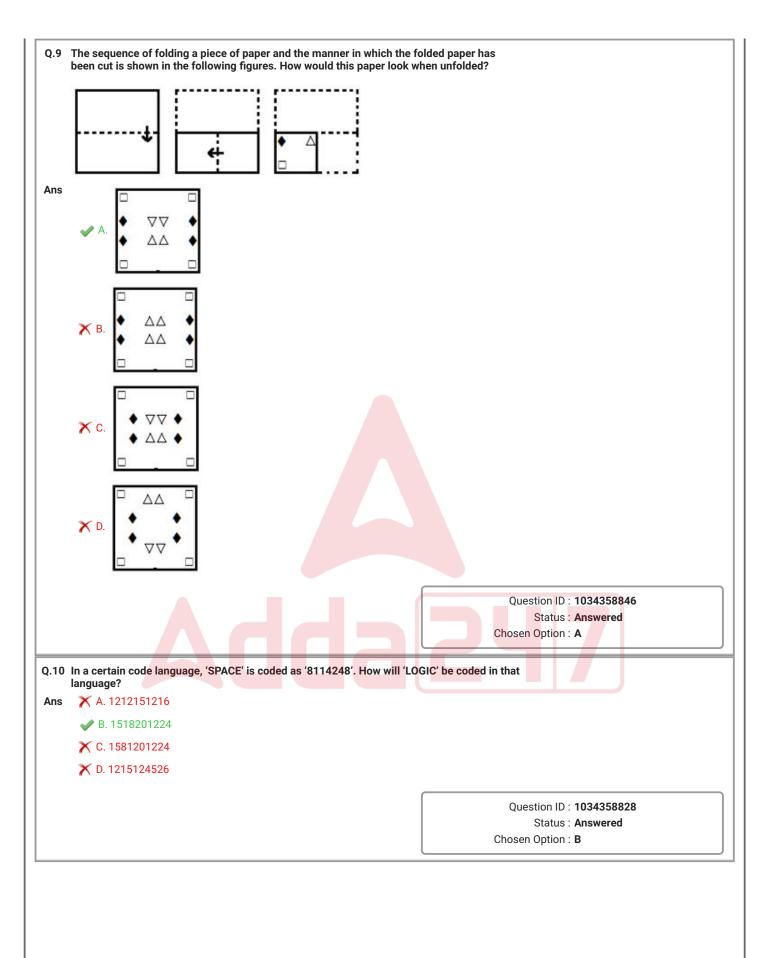
different. Select the number-triad that is different. Ans ✓ A. (7, 25, 71) X B. (12, 45, 139) X C. (13, 49, 151) X D. (5, 17, 55) Question ID: 1034358837 Status: Answered Chosen Option: A Q.3 Six persons Prudvi, Viplav, Ravali, Sitara, Taman and Udit have different heights. Taman is shorter than Ravali. Sitara is taller than two persons. Prudvi is shorter than Viplav, but taller than Ravali. Udit is taller than only Viplav. Who is the third tallest? A. Prudvi Ans X B. Ravali 🗶 C. Taman X D. Viplav Question ID: 1034358829 Status: Answered Chosen Option: A Q.4 Aditya walked 50 m towards the north, then turned left and walked 68 m to reach the bus stand. He then turned to the south and walked 22 m, and then took a left turn and walked 44 m to reach the medical shop. After that he turned right and walked 18 m, and finally he turned left and walked 48 m to reach the library. What is shortest distance between the starting and the ending points, and in which direction is Aditya from the starting point? X A. 30 m, North-east Ans B. 26 m, North-east C. 26 m, South-west X D. 25 m, North-west Question ID: 1034358843 Status: Answered Chosen Option: B Q.5 Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary. 1. Enlightening 2. Ensure 3. Eighteen 4. Enormous 5. English X A. 3, 4, 5, 1, 2 X B. 3, 5, 4, 2, 1 X C. 3, 1, 5, 2, 4 D. 3, 5, 1, 4, 2 Question ID: 1034358820

Status: Answered

Chosen Option: D

Q.2 Four number-triads have been given, out of which three are alike in some manner and one is





Q.11 Eight persons Pavan, Anupama, Ranjani, Sarayu, Tarak, Usha, Vinita and Yadu sit around a square table, in which four persons sit at the four corners, and four persons sit at the middle of the four sides (not necessarily in the same order). Each faces towards the centre. Three persons sit between Pavan and Tarak. Usha sits second to the left of Tarak. Sarayu sits to the immediate right of Anupama. Ranjani sits second to the left of Yadu. Pavan and Sarayu do not sit at the corners. Yadu is not a neighbour of Pavan.

How many persons sit between Vinita and Yadu, from any of the directions?

Ans X A. 0

X B. 1

X C. 2

✓ D. 3

Question ID : 1034358831 Status : Answered

Chosen Option : **D** 

Q.12 Select the correct mirror image of the given combination when the mirror is placed at PQ as shown.



TECHINCAL AX and

X B TECHNICAL

Xc TECHINCAL

TECHNICALOW

Question ID: 1034358847

Status : Answered

Chosen Option: D

Q.13 G, H, I, J, T, K and L are seven members of a family. G and H are a married couple. H is the daughter-in-law of L. J is the only son of I. T is the sister of J. K is the mother-in-law of H. I is G's brother.

How is K related to L?

Ans X A. Mother

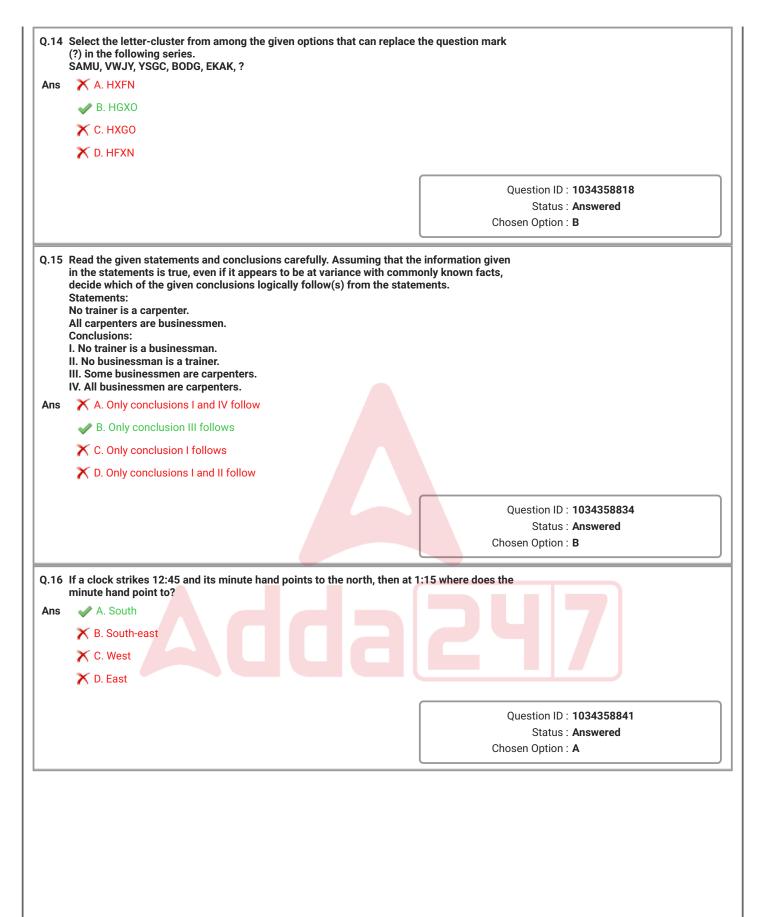
X B. Daughter

X C. Sister

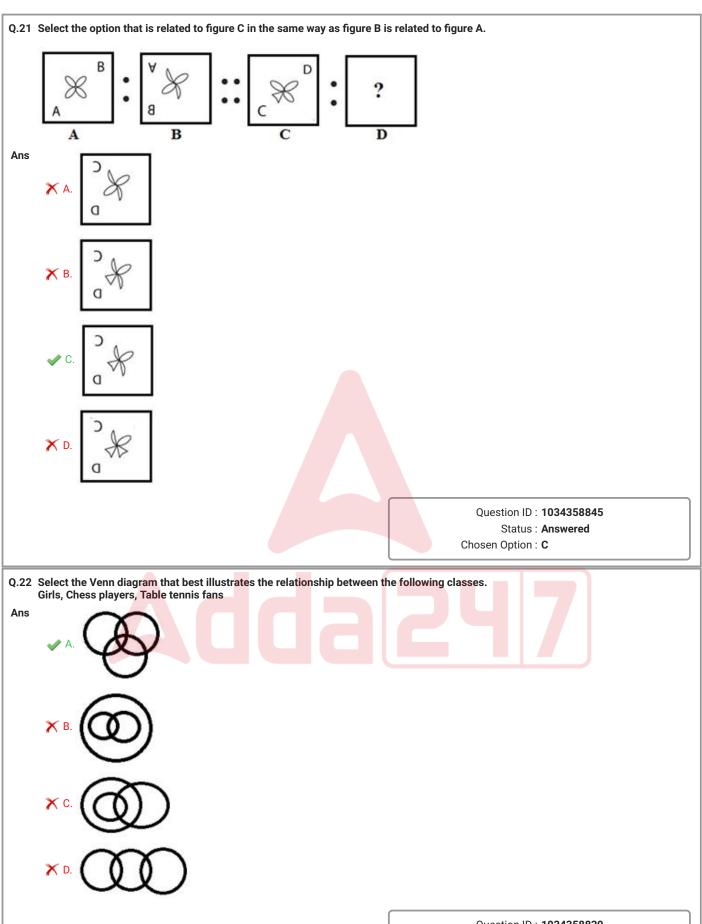
D. Wife

Question ID : 1034358830 Status : Answered

Chosen Option : D



Q.17 Consider the given statement and decide which of the given assumptions is/are implicit in the statement. Statement: "If you are a chemical engineer, we want you as our production manager." - an advertisement by pharmacy company Y. **Assumptions:** I. Chemical engineers are expected to be better performers by pharmacy company Y. II. Pharmacy company Y needs production managers. X A. Either assumption I or II is implicit B. Only assumption II is implicit X C. Both assumptions I and II are implicit X D. Only assumption I is implicit Question ID: 1034358833 Status: Answered Chosen Option: B Q.18 In a certain code language, 'CIRCLE' is written as 'DLWAHY'. How will 'SQUARE' be written in that language? ✓ A. TTZYNY Ans X B. TNZYVY C. TNPYVY X D. TTPNKY Question ID: 1034358827 Status: Answered Chosen Option: A Q.19 Identify the number that does NOT belong to the following series. 3, 7, 13, 28, 77, 279 X A. 77 Ans X B. 28 ✓ C. 279 X D. 13 Question ID: 1034358836 Status: Not Answered Chosen Option: --Q.20 Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster. MTSQ: OZMS:: LDKR:? X A. IEJO Ans X B. IQYO 💢 C. NYQT D. NJET Question ID: 1034358824 Status: Answered Chosen Option: D



Question ID: 1034358839 Status: Answered

Chosen Option : A

| 0.23 | Identify the letter-cluster that does NOT belong to the following series.  |   |
|------|--|---|
| 4.25 | STOP, VWKJ, YZGD, BCCY, EFYR, HIUL   |   |
| Ans  | ✓ A. BCCY  |   |
|      | <b>X</b> B. EFYR   |   |
|      | <b>X</b> C. HIUL   |   |
|      | <b>X</b> D. YZGD   |   |
|      |  |   |
|      |  | Question ID : 1034358819 Status : Answered        |
|      |  | Chosen Option : A                                 |
|      |  |   |
| Q.24 | Study the given figure and answer the questions that follow.   |   |
|      |  |   |
|      | $lack \longrightarrow$ Australians   |   |
|      | /8   |   |
|      | → Cricketers   |   |
|      | (11 3) 7 A   |   |
|      | 17 S → Graduates   |   |
|      | _  |   |
|      | How many Australians are neither graduates nor Cricketers?   |   |
| Ans  | X A. 11  |   |
|      | <b>✔</b> B. 17   |   |
|      | <b>★</b> C. 5  |   |
|      | <b>★</b> D. 3  |   |
|      |  | Question ID : 1034358840                          |
|      |  | Status : Answered                                 |
|      |  | Chosen Option : <b>B</b>                          |
| 0.05 | Farm latter almatana a sira hama hama minar and af mhigh dhana ana alike   |   |
| Q.25 | Four letter-clusters pairs have been given, out of which three are alike one is different. Select the letter-cluster pair that is different. | n some manner and                                 |
| Ans  | ✓ A. MOST : PLVR   |   |
|      | <b>X</b> B. ROAD ; ULDA  |   |
|      | C. MAIN: PXLK  |   |
|      | ➤ D. SENT : VBQQ   |   |
|      |  |   |
|      |  | Question ID : 1034358822                          |
|      |  | Status : <b>Answered</b> Chosen Option : <b>A</b> |
|      |  |   |
|      |  |   |
|      |  |   |
|      |  |   |

Q.26 Study the given pattern carefully and select the number from among the given options that can replace the question mark (?) in it.

| 38 | 7  |
|----|----|
| 38 | 5  |
| ?  | 15 |
|    |    |

Ans

✓ A. 87

X B. 78

X C. 83

X D. 38

Question ID: 1034358838 Status: Answered

Chosen Option : A

Q.27 Select the number from among the given options that can replace the question mark (?) in the following series.

13, 23, 26, 49, 52, ?

Ans

X A. 120

✓ B. 101

X C. 110

X D. 102

Question ID: 1034358835

Status: Answered

Chosen Option :  ${\bf B}$ 

Q.28 Sathwik left her hostel and walked 18 km southwards to reach the market, turned right and walked 9 km, then again turned right and walked 18 km, and then turned left and walked 18 km to reach the shopping mall. How many kilometres does she have to walk to reach her hostel straight from the final position?

Ans

X A. 24 km

✓ B. 27 km

X C. 22 km

X D. 26 km

Question ID: 1034358842

Status: Answered

Chosen Option : B

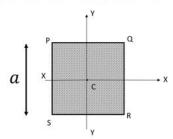
Numismatics: Coins:: Orography:? X A. Eggs Ans B. Mountains X C. Fossils X D. Shells Question ID: 1034358825 Status: Answered Chosen Option: B Q.30 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements. Statements: All teachers are artists. Some magicians are artists. **Conclusions:** (I) All teachers are magicians. (II) Some magicians are teachers. X A. Only conclusion II follows Ans X C. Only conclusion I follows X D. Either conclusion I or II follows Question ID: 1034358832 Status: Answered Chosen Option: B Section: General Engineering Q.1 Steel is an alloy of: Ans X A. carbon and silicon B. iron and carbon X C. iron and sulphur X D. carbon and manganese Question ID: 1034358877 Status: Answered Chosen Option : B

Q.29 Select the option that is related to the third word in the same way as the second word is

related to the first word.

Q.2 What will be the moment of inertia (second moment of area) of a square lamina [PQRS] about its centroidal X-axis?

[ X-X = Centroidal X-axis, Y-Y = Centroidal Y-axis, C=centroid of lamina,  $\alpha$  = Side of square]



Ans

- $\times$  A. Moment of inertia about centroidal X-axis =  $\frac{a^4}{3}$
- $\times$  B. Moment of inertia about centroidal X-axis =  $\frac{a^4}{36}$
- ✓ C. Moment of inertia about centroidal X-axis =  $\frac{a^4}{12}$
- $\times$  D. Moment of inertia about centroidal X-axis =  $\frac{a^4}{64}$

Question ID: 1034358868

Q.3 Which of the following tariffs can be expressed by the expression z = a + by?

z = total tariff

a = tariff based on Maximum demand

by = tariff based on energy consumption.

- X A. Doherty rate
  - X B. Flat demand rate
  - X C. Straight meter rate
  - D. Hopkinson demand rate

Status: Answered

Chosen Option: C

Question ID: 1034358865 Status: Not Answered

Chosen Option: --

Q.4 In case of \_\_\_\_\_, the colour of light is very near to that of natural light.

X A. a sodium vapour lamp Ans

X B. a fluorescent lamp

C. an incandescent lamp

X D. a neon-gas lamp

Question ID: 1034358866

Status: Answered

Chosen Option: C

| Q.5        | What will be the density of a fluid having dynamic viscosity of 0.04 poise viscosity of 0.04 stokes? | and kinematic                                 |
|------------|--|---|
| Ans        | <b>X</b> A. 10,000 kg/m <sup>3</sup>   |   |
|            | <b>★</b> B. 100 kg/m <sup>3</sup>  |   |
|            | ✓ C. 1000 kg/m <sup>3</sup>  |   |
|            | <b>X</b> D. 500 kg/m <sup>3</sup>  |   |
|            |  | Question ID : 1034358875<br>Status : Answered |
|            |  | Chosen Option : <b>C</b>                      |
| Q.6        | As per IS 10500 : 2012 (Drinking water specifications), the acceptable linwater is                   | nit of turbidity in                           |
| Ans        | <b>X</b> A. 5 NTU  |   |
|            | ✓ B. 1 NTU   |   |
|            | <b>★</b> C. 10 NTU   |   |
|            | <b>★</b> D. 15 NTU   |   |
|            |  | Question ID : 1034358855 Status : Answered    |
|            |  | Chosen Option : <b>B</b>                      |
| Q.7<br>Ans | Joules/Coulomb is the unit of  ✓ A. electric potential   |   |
|            | ✗ B. current   |   |
|            | ★ C. work done   |   |
|            | X D. power   |   |
|            |  |   |
|            |  | Question ID : 1034358858<br>Status : Answered |
|            |  | Chosen Option : D                             |
| Q.8        |  |   |
| Ans        | X A. Low power consumption   |   |
|            | ✓ B. Can be used for AC as well as DC measurements   |   |
|            | C. Uniform scale   |   |
|            | X D. High accuracy   |   |
|            |  | Question ID : 1034358863                      |
|            |  | Status : Not Answered                         |
|            |  | Chosen Option :                               |
|            |  |   |
|            |  |   |

| Ans         | In a chain surveying, the biggest of the main survey line is called  A. base line  | -   |
|-------------|--|---|
| Allo        | X B. boundary line   |   |
|             | C. tie line  |   |
|             | D. check line  |   |
|             |  |   |
|             |  | Question ID : 1034358850                                  |
|             |  | Status : Answered   |
|             |  | Chosen Option : A   |
| Q.10        | Which of the following soil components has particles with size in the ra 4.75 mm?  | nge of 75 micron to                                       |
| Ans         | X A. Silt  |   |
|             | X B. Peat  |   |
|             | ★ C. Gravel  |   |
|             | ✓ D. Sand  |   |
|             |  |   |
|             |  | Question ID : 1034358851                                  |
|             |  | Status : <b>Answered</b> Chosen Option : <b>D</b>         |
|             |  |   |
|             |  |   |
| Q.11        | In a DC circuit, a 250 $\Omega$ resistor carries 40 mA current. Find the voltage resistor.   | drop across the   |
| Q.11<br>Ans | In a DC circuit, a 250 $\Omega$ resistor carries 40 mA current. Find the voltage resistor.<br>$\swarrow$ A. 1000 $\lor$                            | drop across the   |
|             | resistor.  | drop across the   |
|             | resistor.  X A. 1000 V   | drop across the   |
|             | resistor.  ★ A. 1000 V  ★ B. 100 V   | drop across the   |
|             | resistor.  X A. 1000 V  X B. 100 V  ✓ C. 10 V  |   |
|             | resistor.  X A. 1000 V  X B. 100 V  ✓ C. 10 V  | Question ID: <b>1034358859</b>                            |
|             | resistor.  X A. 1000 V  X B. 100 V  ✓ C. 10 V  |   |
|             | resistor.  X A. 1000 V  X B. 100 V  ✓ C. 10 V  | Question ID : 1034358859 Status : Answered                |
| Ans         | resistor.  X A. 1000 V  X B. 100 V  ✓ C. 10 V  | Question ID : 1034358859 Status : Answered                |
| Ans         | resistor.  X A. 1000 V  B. 100 V  C. 10 V  D. 1 V  Which of the following is an example for grade of cement concrete?                              | Question ID : 1034358859 Status : Answered                |
| Ans         | resistor.  A. 1000 V  B. 100 V  C. 10 V  D. 1 V  Which of the following is an example for grade of cement concrete?  A. CC304                      | Question ID : 1034358859 Status : Answered                |
| Ans         | resistor.  X A. 1000 V  B. 100 V  C. 10 V  D. 1 V  Which of the following is an example for grade of cement concrete?  A. CC304  B. M20  C. OPC 53 | Question ID : 1034358859 Status : Answered                |
| Ans         | resistor.  X A. 1000 V  B. 100 V  C. 10 V  D. 1 V  Which of the following is an example for grade of cement concrete?  A. CC304  B. M20            | Question ID : 1034358859 Status : Answered                |
| Ans         | resistor.  X A. 1000 V  B. 100 V  C. 10 V  D. 1 V  Which of the following is an example for grade of cement concrete?  A. CC304  B. M20  C. OPC 53 | Question ID: 1034358859 Status: Answered Chosen Option: C |
| Ans         | resistor.  X A. 1000 V  B. 100 V  C. 10 V  D. 1 V  Which of the following is an example for grade of cement concrete?  A. CC304  B. M20  C. OPC 53 | Question ID: 1034358859 Status: Answered Chosen Option: C |

|      | Which of the following is the correct unit of measurement in foundation trenches'?  | ent for the item of work 'earth filling   |
|------|---|---|
| Ans  | 🗙 A. Loads  |   |
|      | X B. Tonnes   |   |
|      | ✓ C. Cubic meter  |   |
|      | X D. Square meter   |   |
|      |   |   |
|      |   | Question ID : 1034358849<br>Status : Answered   |
|      |   | Chosen Option : C   |
|      |   |   |
| Q.14 | The imaginary part of the impedance is called   |   |
| Ans  | X A. resistance   |   |
|      | ✓ B. reactance  |   |
|      | X C. admittance   |   |
|      | X D. susceptance  |   |
|      |   |   |
|      |   | Question ID : 1034358862 Status : Answered  |
|      |   | Chosen Option : A   |
|      |   |   |
|      | <ul><li>✓ B. Laterite</li><li>X C. Trap</li><li>X D. Gneiss</li></ul>   |   |
|      | <b>★</b> C. Trap  |   |
|      | <b>★</b> C. Trap  | Question ID : 1034358848 Status : Answered  |
|      | <b>★</b> C. Trap  | Question ID : 1034358848 Status : Answered Chosen Option : B  |
| Q.16 | C. Trap  D. Gneiss  A cyclic heat engine operates on a Carnot cycle between temperature of 600 K and 300 K, respectively. If the heat   | Status : Answered Chosen Option : B  en the Source and the Sink at engine receives 400 kJ of heat   |
| Q.16 | <ul> <li>C. Trap</li> <li>D. Gneiss</li> </ul> A cyclic heat engine operates on a Carnot cycle between  | Status : Answered Chosen Option : B  en the Source and the Sink at engine receives 400 kJ of heat   |
|      | C. Trap  D. Gneiss  A cyclic heat engine operates on a Carnot cycle betwee temperature of 600 K and 300 K, respectively. If the heat from the Source, what will be the amount of the heat respectively.       | Status : Answered Chosen Option : B  en the Source and the Sink at engine receives 400 kJ of heat   |
|      | A cyclic heat engine operates on a Carnot cycle between temperature of 600 K and 300 K, respectively. If the heat from the Source, what will be the amount of the heat respectively.  A. 100 kJ  B. 200 kJ    | Status : Answered Chosen Option : B  en the Source and the Sink at engine receives 400 kJ of heat   |
|      | A cyclic heat engine operates on a Carnot cycle between temperature of 600 K and 300 K, respectively. If the heat from the Source, what will be the amount of the heat report A. 100 kJ                       | Status : Answered Chosen Option : B  en the Source and the Sink at engine receives 400 kJ of heat   |
|      | A cyclic heat engine operates on a Carnot cycle between temperature of 600 K and 300 K, respectively. If the heat from the Source, what will be the amount of the heat report A. 100 kJ  B. 200 kJ  C. 300 kJ | Status : Answered Chosen Option : B  en the Source and the Sink at engine receives 400 kJ of heat   |
|      | A cyclic heat engine operates on a Carnot cycle between temperature of 600 K and 300 K, respectively. If the heat from the Source, what will be the amount of the heat report A. 100 kJ  B. 200 kJ  C. 300 kJ | Status : Answered Chosen Option : B  en the Source and the Sink at engine receives 400 kJ of heat jected to the Sink?  Question ID : 1034358871 |
|      | A cyclic heat engine operates on a Carnot cycle between temperature of 600 K and 300 K, respectively. If the heat from the Source, what will be the amount of the heat report A. 100 kJ  B. 200 kJ  C. 300 kJ | Status : Answered Chosen Option : B  en the Source and the Sink at engine receives 400 kJ of heat jected to the Sink?                           |

| Q.17        | In 5 kg of a liquid-vapour mixture, 4 kg is the mass of vapour and the rewill be the dryness fraction of the liquid-vapour mixture?          | est is the liquid. What                    |
|-------------|--|--|
| Ans         | X A. 1.0   |  |
|             | <b>✓</b> B. 0.8  |  |
|             | <b>★</b> C. 0.2  |  |
|             | <b>★</b> D. 0.4  |  |
|             |  | 0 10                                       |
|             |  | Question ID : 1034358869 Status : Answered |
|             |  | Chosen Option : <b>B</b>                   |
|             |  |  |
|             | For squirrel cage induction motors, which of the following statements  | is INCORRECT?                              |
| Ans         | A. Brushes are required for transferring the power.  |  |
|             | X B. The rotor acts as a short circuited secondary of a transformer.   |  |
|             | C. It has fixed rotor resistance.  |  |
|             | X D. It has rugged construction.   |  |
|             |  | Question ID : 1034358864                   |
|             |  | Status : Not Answered                      |
|             |  | Chosen Option :                            |
| 0.10        | Mari 64 6 H  | 10   |
| Q.19<br>Ans | Which of the following is correct for the ideal vapour-compression refr<br>A. Constant-pressure heat rejection takes place in the compressor |  |
| Allo        | B. Isentropic compression takes place in the compressor  |  |
|             | C. Throttling takes place in an evaporator   |  |
|             |  | velve                                      |
|             | X D. Constant-pressure heat absorption takes place in the expansion  | valve                                      |
|             |  | Question ID : 1034358873                   |
|             |  | Status : Answered                          |
|             |  | Chosen Option : A                          |
| 0.20        | In a magnetic circuit, is a measure of the opposition offered  | by the magnetic                            |
| Q.20        | circuit to the establishment of magnetic flux.   | by the magnetic                            |
| Ans         | X A. flux density  |  |
|             | ✓ B. reluctance  |  |
|             | X C. magnetomotive force   |  |
|             | X D. permeance   |  |
|             |  |  |
|             |  | Question ID : 1034358860                   |
|             |  | Status : Not Answered Chosen Option :      |
|             |  | Gliosett Option                            |
|             |  |  |
|             |  |  |

#### Q.21 Which of the following is true?

Ans X A. When fluid passes through the nozzle, pressure as well as the velocity of the fluid decreases.

 $\nearrow$  B. When fluid passes through the nozzle, the pressure and velocity of the fluid remain constant.

C. When fluid passes through the nozzle, the pressure of the fluid decreases while the velocity of the fluid increases.

X D. When fluid passes through the nozzle, the pressure of the fluid increases while the velocity of the fluid decreases.

Question ID : 1034358874 Status : Answered

Chosen Option :  $\boldsymbol{C}$ 

### Q.22 Which of the following is true?

**Ans** X A. Kaplan turbine is a tangential flow turbine.

X B. Kaplan turbine is an impulse turbine.

C. Pelton wheel is a tangential flow turbine.

X D. Francis turbine is an impulse turbine.

Question ID : 1034358876 Status : Answered

Chosen Option :  ${\bf C}$ 

Q.23 A certain amount of an ideal gas occupies a volume of 0.3 m<sup>3</sup> at a pressure of 2 bar and temperature of 450 K. The gas undergoes a thermodynamic constant-volume process until the pressure of the gas raises to 5 bar. What will be the temperature of the gas at the end of the process?

Ans (

✓ A. 1125 K

X B. 1175 K

X C. 1100 K

X D. 1150 K

Question ID : 1034358870 Status : Answered

Chosen Option : A

Q.24 Identify whether the given statements with respect to viscosity of fluids are correct or incorrect.

Statements:

- A) Viscosity of fluids is due to cohesion and interaction between fluid particles.
- B) An ideal fluid exhibits a greatest value of viscosity when compared to other real fluids.

Ans

- A. Statement A is correct and B is incorrect
- X B. Statement B is correct and A is incorrect
- X C. Both statements are incorrect
- D. Both statements are correct

Question ID: 1034358852

Status: Answered

Chosen Option: A

| ns  | <b>★</b> A. 2.5 m  |                        |   |                             |
|-----|--|------------------------|---|-----------------------------|
|     | <b>★</b> B. 4.0 m  |                        |   |                             |
|     | <b>X</b> C. 3.0 m  |                        |   |                             |
|     | <b>✓</b> D. 3.5 m  |                        |   |                             |
|     |  |                        | Ouestion ID:  | 1034358854                  |
|     |  |                        | · ·   | Answered                    |
|     |  |                        | Chosen Option :   | D                           |
|     | A sinusoidal voltage is represented by the expression to peak amplitude of the signal?   | n, v(t) = 20 sin ωt. \ | What will be the peak                                     |                             |
| Ans | <b>X</b> A. 37.37 ∨  |                        |   |                             |
|     | <b>✓</b> B. 40 V   |                        |   |                             |
|     | <b>★</b> C. 28.28 V  |                        |   |                             |
|     | <b>★</b> D. 20 V   |                        |   |                             |
|     |  |                        |   |                             |
|     |  |                        |   | 1034358861                  |
|     |  |                        | Status :  | Not Answered                |
|     |  |                        | 01 0 11   |                             |
|     | Identify whether the given statements with respect to incorrect. Statements: A) Sprinkler irrigation is more suitable than surface a pervious soil and undulated surface profile. B) Sprinkler irrigation is more suitable than surface a slopes and easily erodible soil  | methods when the       | and has very  |                             |
|     | incorrect. Statements: A) Sprinkler irrigation is more suitable than surface a pervious soil and undulated surface profile. B) Sprinkler irrigation is more suitable than surface a slopes and easily erodible soil  A. Statement B is correct and A is incorrect  B. Both statements are incorrect  | methods when the       | and has very  |                             |
|     | incorrect. Statements: A) Sprinkler irrigation is more suitable than surface a pervious soil and undulated surface profile. B) Sprinkler irrigation is more suitable than surface a slopes and easily erodible soil  A. Statement B is correct and A is incorrect  B. Both statements are incorrect  C. Both statements are correct  | methods when the       | and has very  |                             |
|     | incorrect. Statements: A) Sprinkler irrigation is more suitable than surface a pervious soil and undulated surface profile. B) Sprinkler irrigation is more suitable than surface a slopes and easily erodible soil  A. Statement B is correct and A is incorrect  B. Both statements are incorrect  | methods when the       | and has very  |                             |
|     | incorrect. Statements: A) Sprinkler irrigation is more suitable than surface a pervious soil and undulated surface profile. B) Sprinkler irrigation is more suitable than surface a slopes and easily erodible soil  A. Statement B is correct and A is incorrect  B. Both statements are incorrect  C. Both statements are correct  | methods when the       | and has very and has steep                                |                             |
|     | incorrect. Statements: A) Sprinkler irrigation is more suitable than surface a pervious soil and undulated surface profile. B) Sprinkler irrigation is more suitable than surface a slopes and easily erodible soil  A. Statement B is correct and A is incorrect  B. Both statements are incorrect  C. Both statements are correct  | methods when the       | n are correct or and has very and has steep  Question ID: | 1034358853<br>Answered      |
|     | incorrect. Statements: A) Sprinkler irrigation is more suitable than surface a pervious soil and undulated surface profile. B) Sprinkler irrigation is more suitable than surface a slopes and easily erodible soil  A. Statement B is correct and A is incorrect  B. Both statements are incorrect  C. Both statements are correct  | methods when the       | n are correct or and has very and has steep  Question ID: | 1034358853<br>Answered      |
| ans | incorrect. Statements: A) Sprinkler irrigation is more suitable than surface in pervious soil and undulated surface profile. B) Sprinkler irrigation is more suitable than surface is slopes and easily erodible soil  A. Statement B is correct and A is incorrect  B. Both statements are incorrect  C. Both statements are correct  D. Statement A is correct and B is incorrect  | methods when the I     | Question ID : Status : Chosen Option :                    | 1034358853<br>Answered      |
| .28 | incorrect. Statements: A) Sprinkler irrigation is more suitable than surface in pervious soil and undulated surface profile. B) Sprinkler irrigation is more suitable than surface is slopes and easily erodible soil  A. Statement B is correct and A is incorrect  B. Both statements are incorrect  C. Both statements are correct  D. Statement A is correct and B is incorrect  | methods when the I     | Question ID : Status : Chosen Option :                    | 1034358853<br>Answered      |
| .28 | incorrect. Statements: A) Sprinkler irrigation is more suitable than surface in pervious soil and undulated surface profile. B) Sprinkler irrigation is more suitable than surface is slopes and easily erodible soil  A. Statement B is correct and A is incorrect  B. Both statements are incorrect  C. Both statements are correct  D. Statement A is correct and B is incorrect  As per IS 456: 2000, which of the following is a class concrete (RCC) slab?   | methods when the I     | Question ID : Status : Chosen Option :                    | 1034358853<br>Answered      |
| .28 | incorrect. Statements: A) Sprinkler irrigation is more suitable than surface in pervious soil and undulated surface profile. B) Sprinkler irrigation is more suitable than surface is slopes and easily erodible soil  A. Statement B is correct and A is incorrect  B. Both statements are incorrect  C. Both statements are correct  D. Statement A is correct and B is incorrect  As per IS 456: 2000, which of the following is a class concrete (RCC) slab?  A. Two-way slab  | methods when the I     | Question ID : Status : Chosen Option :                    | 1034358853<br>Answered      |
| .28 | incorrect. Statements: A) Sprinkler irrigation is more suitable than surface in pervious soil and undulated surface profile. B) Sprinkler irrigation is more suitable than surface it slopes and easily erodible soil  A. Statement B is correct and A is incorrect  B. Both statements are incorrect  C. Both statements are correct  D. Statement A is correct and B is incorrect  As per IS 456: 2000, which of the following is a class concrete (RCC) slab?  A. Two-way slab  B. Three-way slab                     | methods when the I     | Question ID : Status : Chosen Option :                    | 1034358853<br>Answered      |
| Ans | incorrect. Statements: A) Sprinkler irrigation is more suitable than surface in pervious soil and undulated surface profile. B) Sprinkler irrigation is more suitable than surface is slopes and easily erodible soil  X A. Statement B is correct and A is incorrect  B. Both statements are incorrect  C. Both statements are correct  D. Statement A is correct and B is incorrect  As per IS 456: 2000, which of the following is a class concrete (RCC) slab?  A. Two-way slab  B. Three-way slab  C. Five-way slab | methods when the I     | Question ID : Status : Chosen Option :                    | 1034358853<br>Answered      |
| .28 | incorrect. Statements: A) Sprinkler irrigation is more suitable than surface in pervious soil and undulated surface profile. B) Sprinkler irrigation is more suitable than surface is slopes and easily erodible soil  X A. Statement B is correct and A is incorrect  B. Both statements are incorrect  C. Both statements are correct  D. Statement A is correct and B is incorrect  As per IS 456: 2000, which of the following is a class concrete (RCC) slab?  A. Two-way slab  B. Three-way slab  C. Five-way slab | methods when the I     | Question ID: Status: Chosen Option:                       | 1034358853<br>Answered      |
| .28 | incorrect. Statements: A) Sprinkler irrigation is more suitable than surface in pervious soil and undulated surface profile. B) Sprinkler irrigation is more suitable than surface is slopes and easily erodible soil  X A. Statement B is correct and A is incorrect  B. Both statements are incorrect  C. Both statements are correct  D. Statement A is correct and B is incorrect  As per IS 456: 2000, which of the following is a class concrete (RCC) slab?  A. Two-way slab  B. Three-way slab  C. Five-way slab | methods when the I     | Question ID : Status : Chosen Option :                    | 1034358853<br>Answered<br>C |

Q.29 A refrigerator has a coefficient of performance of 2. The rate of heat removed from refrigerated space is 60 kJ/min. What will be the electrical power consumed by the compressor? ✓ A. 0.5 kW Ans X B. 1.5 kW X C. 1 kW X D. 2 kW Question ID: 1034358872 Status: Not Answered Chosen Option: --Q.30 With reference to BJT, which of the following statements is true or FALSE? 1. The emitter diode is always revere biased, whereas the collector diode is always forward biased. 2. The emitter is heavily doped. X A. 1. True 2. True X B. 1. False 2.False C. 1. False 2.True X D. 1. True 2.False Question ID: 1034358867 Status: Not Answered Chosen Option: --Section: Domain Knowledge Q.1 Which of the following is NOT a method of land reclamation of salt-affected land in irrigated command area? X A. Leaching X B. Surface drainage X C. Sub-soiling D. Under irrigation by sprinklers Question ID: 1034358944 Status: Answered Chosen Option: D Q.2 According to the world health organisation, what is the recommended range of the audiometric sound values for moderate hearing impairment? X A. 26-40 dB Ans X B. 61-80 dB X C. 81 dB and above ✓ D. 41-60 dB Question ID: 1034358969 Status: Marked For Review Chosen Option: B

#### Q.3 Which of the following beams is a statically indeterminate structure?

Ans X A. One end of the beam is hinged and the other end is supported by a simple support

X B. One end of the beam is hinged and the other end is supported by the roller support

C. Propped cantilever beam

X D. Cantilever beam

Question ID : 1034358971 Status : Answered

Chosen Option :  ${\bf C}$ 

Q.4 A specific gravity test is conducted to find the specific gravity of soil in the laboratory. The following data are obtained. Mass of empty jar = 0.498 kg, mass of jar with full of water = 1.7 kg, mass of oven dry soil sample = 0.2 kg, mass of oven dry soil with water in jar = 1.8 kg. What is the specific gravity of the soil sample?

**X** B. 1.00

X C. 2.24

X D. 2.73

Question ID: 1034358903 Status: Answered Chosen Option: A

Q.5 Select the correct option from the following statements between cost and value.

Statement-1: Cost means the actual cost of construction whereas value means the present market value.

Statement-2: Cost depends on demand and supply whereas value is a constant amount.

Ans X A. Both statements are incorrect

✓ B. Statement-1 is correct and statement-2 is incorrect

X C. Both statements are correct

X D. Statement-1 is incorrect and statement-2 is correct

Question ID : 1034358889 Status : Answered

Chosen Option : B

Q.6 If B is the base period of a crop in days, and D is the duty of water in hectares, then the relationship between duty, delta (Δ) and the base period is given by:

Ans

$$\times$$
 A.  $B = \frac{8.64\Delta}{D}$  metres

$$\times$$
 B.  $\Delta = \frac{864B}{D}$  metres

$$\checkmark$$
 c.  $\Delta = \frac{8.64B}{D}$  metres

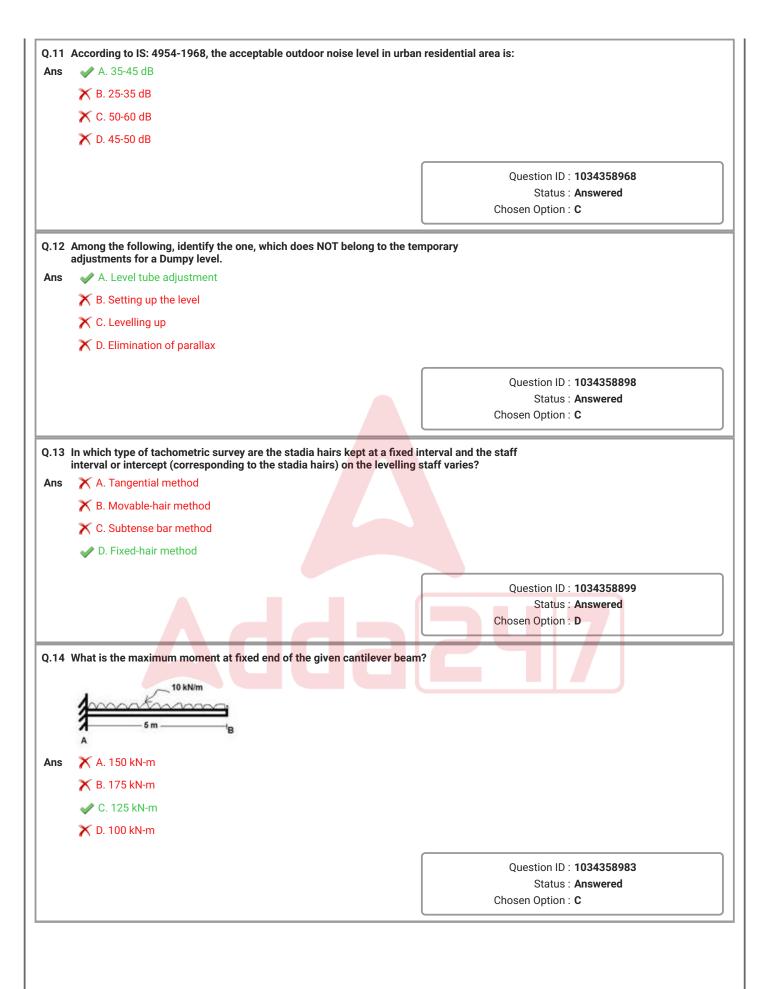
$$\times$$
 D.  $\Delta = \frac{8.64D}{R}$  metres

Question ID: 1034358932

Status: Answered

Chosen Option : C

| Q.7  | What is the magnetic declination at a place if the magnet | agnetic bearing of the sun at noon is                        |
|------|--|--|
| Ans  | 184°?  X A. 4° E   |  |
|      | X B. 4° N  |  |
|      | X C. 4° S  |  |
|      | ✓ D. 4° W  |  |
|      | D. 4 W   |  |
|      |  | Question ID: 1034358894                                      |
|      |  | Status : <b>Answered</b> Chosen Option : <b>D</b>            |
|      |  | Chosen Option . D  |
| Q.8  | The standard width of an Indian broad gauge railway  | y track is:  |
| Ans  | X A. 762 mm  |  |
|      | ✓ B. 1676 mm   |  |
|      | X C. 1524 mm   |  |
|      | X D. 1000 mm   |  |
|      |  |  |
|      |  | Question ID: 1034358952 Status: Answered                     |
|      |  | Chosen Option: <b>B</b>                                      |
|      |  |  |
|      | Which of the following is NOT an electromagnetic di  | istance measurement equipment?                               |
| Ans  |  |  |
|      | → B. Planimeter  → C. Division       |  |
|      | C. Distomats   |  |
|      | X D. Geodimeter  |  |
|      |  | Question ID : 1034358900                                     |
|      |  | Status : Answered  |
|      |  | Chosen Option : <b>B</b>                                     |
| 0.10 | Which of the following is NOT an assumption of Ber   | noulli's theorem applied to fluid flow?                      |
| Ans  |  |  |
|      | ✓ B. The fluid is real.  |  |
|      |  |  |
|      | X C. The flow is steady.   |  |
|      | <ul><li>C. The flow is steady.</li><li>D. The flow is ideal.</li></ul>   |  |
|      | <ul><li>C. The flow is steady.</li><li>D. The flow is ideal.</li></ul>   |  |
|      |  | Question ID: 1034358921                                      |
|      |  | Question ID : 1034358921 Status : Answered Chosen Option : B |

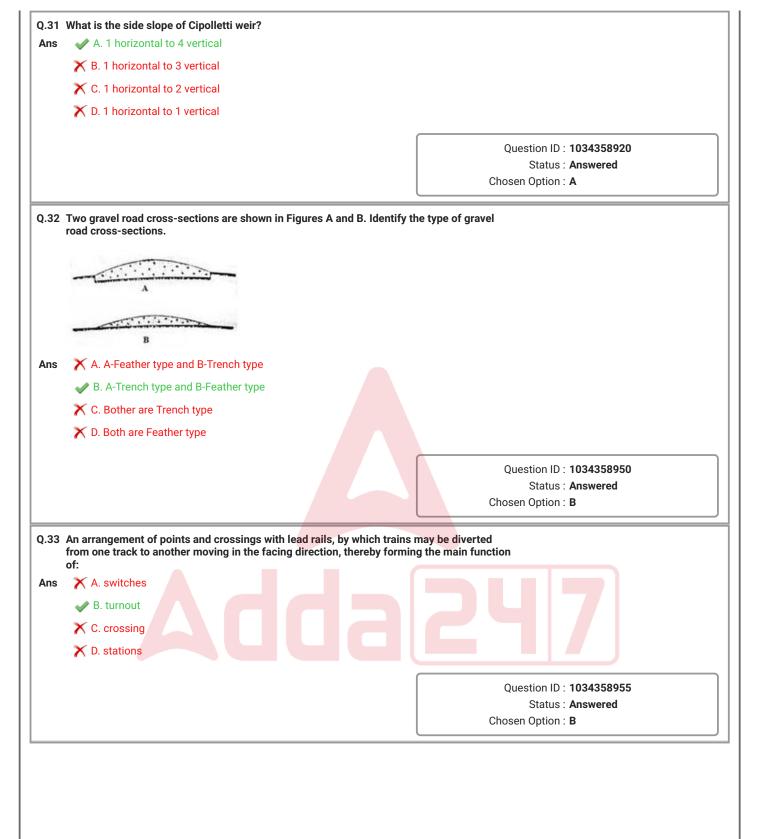


| Q. 13 | 'Roundabout' is a road safety measure that reduces mainly:  |   |
|-------|---|---|
| Ans   | A. vehicle and pedestrian conflicts   |   |
|       | X B. vehicle accident conflicts only  |   |
|       | ★ C. traffic congestion only  |   |
|       | X D. pedestrian conflicts only  |   |
|       |   | Outputiers ID + 1024250057                                  |
|       |   | Question ID : <b>1034358957</b><br>Status : <b>Answered</b> |
|       |   | Chosen Option: <b>B</b>                                     |
|       |   |   |
| }.16  | When the sanctioned estimate is likely to be exceeded by more that insufficient fund or, price level, or whatever, other than structural altestimate which is prepared is called: |   |
| Ans   | X A. unit rate estimate   |   |
|       | X B. supplementary estimate   |   |
|       | ✓ C. revised estimate   |   |
|       | X D. detailed estimate  |   |
|       |   |   |
|       |   | Question ID : 1034358881                                    |
|       |   | Status : <b>Answered</b><br>Chosen Option : <b>C</b>        |
|       |   | Siloson Spiloni V   |
| Q.17  | Which of the following tests is most commonly used to find the relashearing resistance of cohesionless soils?   | tive density and angle of                                   |
| Ans   | X A. Standard proctor test  |   |
|       | ✓ B. Standard penetration test  |   |
|       | ★ C. Standard compact test  |   |
|       | ✗ D. Standard bearing test  |   |
|       |   |   |
|       |   | Question ID : 1034358917<br>Status : Answered               |
|       |   | Chosen Option : B   |
|       |   |   |
| ).18  | Softening point of the bitumen is determined using the  |   |
| Ans   | X A. float test   |   |
|       | X B. flash and fire point test  |   |
|       |   |   |
|       | C. viscosity test   |   |
|       | <ul><li>C. viscosity test</li><li>✓ D. ring and ball test</li></ul>   |   |
|       |   | Outstian ID : 4004050040                                    |
|       |   | Question ID : <b>1034358948</b><br>Status : <b>Answered</b> |

### Q.19 What is the amount of water required per bag of cement (50 kg) for concrete mix proportion 1: 2: 4, if the water-cement ratio is 0.58? X A. 35 I Ans X B. 38 I X C. 25 I ✓ D. 29 I Question ID: 1034358883 Status: Answered Chosen Option: D Q.20 What is the unit of dynamic viscosity of fluid in SI system? X A. Square metre/second X B. Kilogram force-second/square metre X C. Dyne-second/square centimetre D. Newton-second/square metre Question ID: 1034358918 Status: Answered Chosen Option: D Q.21 Which of the following is NOT a physical property of a building material? X A. Specific weight X B. Density X C. Porosity D. Elasticity Question ID: 1034358878 Status: Answered Chosen Option: D Q.22 The harmful effects of municipal solid waste includes all, EXCEPT: X A. providing breeding sites of insects and infectious organisms ✓ B. improving the physiochemical and biological properties of plants and soil due to the large amount of nutrients X C. contamination of groundwater and soil X D. involving waste collection, transportation, segregation of wastes and disposal techniques Question ID: 1034358965 Status: Answered Chosen Option: B

| ns          | X A. 0.60 d   |  |
|-------------|---|--|
|             | <b>X</b> B. 0.45 d  |  |
|             | <b>X</b> C. 1.45 d  |  |
|             | <b>✓</b> D. 0.75 d  |  |
|             |   |  |
|             |   | Question ID : 1034358981<br>Status : Answered  |
|             |   | Chosen Option : <b>D</b>   |
|             |   |  |
|             | Select the primary air pollutant from the follow A. Aerosols  | wing.  |
| Ans         | X B. Ozone  |  |
|             | C. Sulphur dioxide  |  |
|             | ➤ D. Photochemical smog   |  |
|             | 7 B. I Hotochemical Sillog  |  |
|             |   | Question ID : 1034358967   |
|             |   |  |
|             |   | Status : Answered  |
|             | Under the classification of irrigation canals ba of canal which is aligned along the natural ride  A. Detour canal  | Chosen Option : C  |
|             | of canal which is aligned along the natural rid  A. Detour canal  B. Watershed canal  C. Contour canal  | Chosen Option : C  |
|             | of canal which is aligned along the natural rid  A. Detour canal  B. Watershed canal  | Chosen Option : C  |
| Q.25<br>Ans | of canal which is aligned along the natural rid  A. Detour canal  B. Watershed canal  C. Contour canal  | Chosen Option : C  |
| Ans         | of canal which is aligned along the natural rid  A. Detour canal  B. Watershed canal  C. Contour canal  | Chosen Option : C  ased on the alignment criteria, identify the type ge lines.  Question ID : 1034358936 Status : Answered Chosen Option : B   |
| ).26        | of canal which is aligned along the natural rid  A. Detour canal  B. Watershed canal  C. Contour canal  D. Side slope canal   | Chosen Option : C  ased on the alignment criteria, identify the type ge lines.  Question ID : 1034358936 Status : Answered Chosen Option : B   |
| ).26        | of canal which is aligned along the natural rid  A. Detour canal  B. Watershed canal  C. Contour canal  D. Side slope canal  The process of turning the telescope in a vert axis is called:   | Chosen Option : C  ased on the alignment criteria, identify the type ge lines.  Question ID : 1034358936 Status : Answered Chosen Option : B   |
| Ans         | of canal which is aligned along the natural rid  A. Detour canal  B. Watershed canal  C. Contour canal  D. Side slope canal  The process of turning the telescope in a vert axis is called:  A. centring                            | Chosen Option : C  ased on the alignment criteria, identify the type ge lines.  Question ID : 1034358936 Status : Answered Chosen Option : B   |
| ).26        | of canal which is aligned along the natural rid  A. Detour canal  B. Watershed canal  C. Contour canal  D. Side slope canal  The process of turning the telescope in a vert axis is called:  A. centring  B. swinging               | Chosen Option : C  ased on the alignment criteria, identify the type ge lines.  Question ID : 1034358936 Status : Answered Chosen Option : B   |
| Ans         | of canal which is aligned along the natural rid  A. Detour canal  B. Watershed canal  C. Contour canal  D. Side slope canal  The process of turning the telescope in a vert axis is called:  A. centring  B. swinging  C. levelling | Chosen Option : C  ased on the alignment criteria, identify the type ge lines.  Question ID : 1034358936 Status : Answered Chosen Option : B  ical plane through 180° about the trunnion |
| Ans         | of canal which is aligned along the natural rid  A. Detour canal  B. Watershed canal  C. Contour canal  D. Side slope canal  The process of turning the telescope in a vert axis is called:  A. centring  B. swinging  C. levelling | Chosen Option : C  ased on the alignment criteria, identify the type ge lines.  Question ID : 1034358936 Status : Answered Chosen Option : B   |

| Q.27 | Q.27 According to IS code 2470-1963, the capacity of sludge digestion is equal to at 25°C.                 |   |  |  |  |  |
|------|--|---|--|--|--|--|
| Ans  | <b>★</b> A. 7.76 m <sup>3</sup> per 1000 persons   |   |  |  |  |  |
|      | X B. 7.76 m <sup>3</sup> per 100 persons   |   |  |  |  |  |
|      | ✓ C. 3.3 m <sup>3</sup> per 100 persons  |   |  |  |  |  |
|      | <b>X</b> D. 3.3 m <sup>3</sup> per 1000 persons  |   |  |  |  |  |
|      |  |   |  |  |  |  |
|      |  | Question ID : 1034358885<br>Status : Not Answered |  |  |  |  |
|      |  | Chosen Option :                                   |  |  |  |  |
|      |  |   |  |  |  |  |
| Q.28 | In a staircase, the horizontal projection distance between the first and inclined flight is called:        | the last riser of an                              |  |  |  |  |
| Ans  | X A. waist   |   |  |  |  |  |
|      | X B. tread   |   |  |  |  |  |
|      | C. going   |   |  |  |  |  |
|      | X D. nosing  |   |  |  |  |  |
|      |  | 2 12  |  |  |  |  |
|      |  | Question ID : 1034358985<br>Status : Answered     |  |  |  |  |
|      |  | Chosen Option : <b>C</b>                          |  |  |  |  |
| _    |  |   |  |  |  |  |
| Q.29 | Which of the following tests is used to measure the undrained shear st saturated clay in the field?        | rength of soft                                    |  |  |  |  |
| Ans  | X A. Direct shear test   |   |  |  |  |  |
|      | X B. Triaxial compression test   |   |  |  |  |  |
|      | ★ C. Unconfined compression test   |   |  |  |  |  |
|      | ✓ D. Vane shear test   |   |  |  |  |  |
|      |  |   |  |  |  |  |
|      |  | Question ID : 1034358913                          |  |  |  |  |
|      |  | Status : Answered Chosen Option : D               |  |  |  |  |
|      |  |   |  |  |  |  |
| Q.30 | What is the maximum permissible limit of chloride in the absence of ardrinking water as per IS 10500-2012? | alternate source of                               |  |  |  |  |
| Ans  | <b>X</b> A. 250 mg/l   |   |  |  |  |  |
|      | <b>X</b> B. 2000 mg/l  |   |  |  |  |  |
|      | ✓ C. 1000 mg/l   |   |  |  |  |  |
|      | <b>X</b> D. 500 mg/l   |   |  |  |  |  |
|      |  |   |  |  |  |  |
|      |  | Question ID : 1034358958 Status : Answered        |  |  |  |  |
|      |  | Chosen Option : C                                 |  |  |  |  |
|      |  |   |  |  |  |  |
|      |  |   |  |  |  |  |
|      |  |   |  |  |  |  |



Q.34 If Q is the discharge through a rectangular notch, H is the head over the rectangular notch, then the error in discharge due to the error in measurement of head over a rectangular notch is given by:

Ans

$$\times$$
 A.  $\frac{dQ}{Q} = \frac{5dH}{2H}$ 

$$\checkmark$$
 B.  $\frac{dQ}{Q} = \frac{3dH}{2H}$ 

$$\times$$
 c.  $\frac{dH}{Q} = \frac{3dQ}{2H}$ 

$$\times$$
 D.  $\frac{dQ}{2H} = \frac{3dH}{Q}$ 

Question ID : 1034358923 Status : Answered

Chosen Option : **B** 

Q.35 According to IS 4082-1996, to store cement bags at the working site, a space of \_\_\_\_\_ minimum shall be left around between the exterior walls and the stacks.

Ans

- X A. 800 mm
- X B. 200 mm
- ✓ C. 600 mm
- X D. 400 mm

Question ID: 1034358978 Status: Answered

Chosen Option : C

Q.36 Which type of fixture and fastenings are used in rail joints to maintain the continuity of the rails?

Ans

X A. Bearing plate



X C. Spikes

X D. Keys

Question ID : 1034358953 Status : Answered

Chosen Option : **B** 

Q.37 Which of the following statements about the runoff coefficient value is correct?

Δns

✓ A. A larger value for areas with low infiltration and lower for high infiltration

X B. A larger value for areas with afforestation and lower for deforestation

X C. A larger value for sand and lower for clay

X D. A larger value for areas with pervious surface and lower for impervious surface

Question ID : 1034358928 Status : Answered

Chosen Option: A

| Q.38 | The soil fertility of an irrigation command area can be achieved by:  |   |
|------|---|---|
| Ans  | X A. irrigation   |   |
|      | ✓ B. crop rotation  |   |
|      | ★ C. groundwater recharge   |   |
|      | X D. drainage   |   |
|      |   | 0 15  |
|      |   | Question ID : 1034358943 Status : Answered        |
|      |   | Chosen Option : <b>B</b>                          |
|      |   |   |
| Q.39 | Which of the following types of topographical surveys consists of meth-<br>intersection, traversing and resection?                          | ods of radiation,                                 |
| Ans  | X A. Aerial survey  |   |
|      | ✓ B. Plane table survey   |   |
|      | ★ C. Theodolite survey  |   |
|      | ➤ D. Hydrographic survey  |   |
|      |   |   |
|      |   | Question ID : 1034358895<br>Status : Answered     |
|      |   | Chosen Option : <b>B</b>                          |
|      |   |   |
| Q.40 | According to IRC 15-2002 specification, what is the maximum spacing in an unreinforced cement concrete slab of thickness 15 cm in rigid pay | of contraction joints                             |
| Ans  | X A. 14 m   | cinents.  |
|      | <b>★</b> B. 1.5 m   |   |
|      | <b>X</b> C. 8.5 m   |   |
|      | ✓ D. 4.5 m  |   |
|      |   |   |
|      |   | Question ID: 1034358946                           |
|      |   | Status : <b>Answered</b> Chosen Option : <b>D</b> |
|      |   | Chosch option: 2                                  |
| Q.41 | In consolidation of soils, the is defined as the decrease in void increase in effective stress.   | ratio per unit                                    |
| Ans  | ✓ A. coefficient of compressibility   |   |
|      | X B. compression index  |   |
|      | C. coefficient of volume change   |   |
|      | X D. expansion index  |   |
|      |   |   |
|      |   | Question ID: 1034358910                           |
|      |   | Status : Answered                                 |
|      |   | Chosen Option : A                                 |
|      |   |   |
|      |   |   |
|      |   |   |

# Q.42 Which of the following is a non-recording type of rain gauge? Ans A. Symon's type X B. Float type X C. Tipping bucket type X D. Weighing type Question ID: 1034358927 Status: Answered Chosen Option: A Q.43 Which of the following salient feature is NOT related to Kennedy's theory of alluvial channel design? X A. The mean velocity is computed by Kutter's equation Ans B. Silt factor is introduced X C. Kennedy's theory does not give equation for bed slope X D. Critical velocity ratio is introduced Question ID: 1034358939 Status: Answered Chosen Option: B Q.44 A soil is said to be normally consolidated when: X A. the soil undergoes primary consolidation without any initial pressure acting on it X B. the soil changes its volume by the initial pressure applied on it C. the soils which had not been subjected to the pressure greater than the present existing pressure X D. the soil had been subjected in the past to a pressure in excess of the present pressure Question ID: 1034358912 Status: Answered Chosen Option: C Q.45 The following statements are related to slump test. Select the correct option. Statement 1: A slump cone measures 100 mm (top diameter), 200 mm (bottom diameter) and 350 mm height. Statement 2: Slump test helps in qualitatively understanding the setting time of concrete. A. Both statements are false X B. Statement 1 is true and statement 2 is false X C. Statement 1 is false and statement 2 is true X D. Both statements are true Question ID: 1034358977 Status: Answered Chosen Option: A

Q.46 Read the following statements and select the correct option. Statement 1: Sprinkler irrigation is suited to crops requiring frequent and larger depths of irrigation during high winds and temperature. Statement 2: Drip irrigation is suited to crops requiring frequent irrigation close to root during high winds and temperature. A. Statement 1 is incorrect and statement 2 is correct Ans X B. Statement 1 is correct and statement 2 is incorrect X C. Both statements are incorrect X D. Both statements are correct Question ID: 1034358926 Status: Answered Chosen Option: A Q.47 In a sudden enlargement of a pipe cross-section, if the velocity of flow at the inlet of pipe (V1) = 40 m/s,velocity of flow at the outlet of the pipe (V2) = 20 m/s and the acceleration due to gravity is assumed to be 10 m/s<sup>2</sup>, then the loss of head due to sudden enlargement of pipe is: A. 20 m of water X B. 15 m of water X C. 18 m of water X D. 40 m of water Question ID: 1034358922 Status: Answered Chosen Option: A Q.48 The ratio of the power available at the shaft of the turbine to the power delivered to the runner is defined as: X A. hydraulic efficiency of turbine X B. volumetric efficiency of turbine C. mechanical efficiency of turbine X D. overall efficiency of turbine Question ID: 1034358924 Status: Answered Chosen Option: C Q.49 According to IS code SP-27-1987, no deduction shall be made for opening NOT exceeding \_\_ in painting work estimate. X A. 1.00 sq. m X C. 0.05 sq. m X D. 0.75 sq. m Question ID: 1034358884 Status: Answered Chosen Option: B

| Ans         | <b>0.9</b> km from the well. Compute the conveyance ef   |   |
|-------------|--|---|
|             | <b>★</b> B. 60%  |   |
|             | × C. 80%   |   |
|             | × D. 50%   |   |
|             | D. 30%   |   |
|             |  | Question ID : 1034358935  |
|             |  | Status : <b>Answered</b>  |
|             |  | Chosen Option : A   |
| ).51        | Which of the following methods is NOT used for c   | calculating depreciation?   |
| Ans         | X A. Quantity survey method  |   |
|             | ✓ B. Crossing method   |   |
|             | ★ C. Straight line method  |   |
|             | X D. Sinking fund method   |   |
|             |  |   |
|             |  | Question ID : 1034358890  |
|             |  |   |
|             |  | Status : <b>Answered</b> Chosen Option : <b>B</b>   |
|             | Which type of surveying does NOT make use of the A. Plane table surveying  B. Chain surveying  | Chosen Option : B   |
|             |  | Chosen Option : B   |
|             | <ul><li>★ A. Plane table surveying</li><li>★ B. Chain surveying</li><li>✔ C. Aerial surveying</li></ul>  | Chosen Option : B   |
|             | <ul><li>★ A. Plane table surveying</li><li>★ B. Chain surveying</li><li>✔ C. Aerial surveying</li></ul>  | Chosen Option : B   |
|             | <ul><li>★ A. Plane table surveying</li><li>★ B. Chain surveying</li><li>✔ C. Aerial surveying</li></ul>  | Chosen Option : B  ne principle of Triangulation?  Question ID : 1034358893                                   |
| Ans         | <ul> <li>★ A. Plane table surveying</li> <li>★ B. Chain surveying</li> <li>★ C. Aerial surveying</li> <li>★ D. Compass surveying</li> </ul>  | Chosen Option : B  Question ID : 1034358893 Status : Answered Chosen Option : C                               |
| Ans<br>Q.53 | <ul> <li>★ A. Plane table surveying</li> <li>★ B. Chain surveying</li> <li>★ C. Aerial surveying</li> <li>★ D. Compass surveying</li> <li>'Blaine air permissibility test' is used to find the</li> </ul>  | Chosen Option : B  Question ID : 1034358893 Status : Answered Chosen Option : C                               |
| Ans<br>Q.53 | <ul> <li>★ A. Plane table surveying</li> <li>★ B. Chain surveying</li> <li>★ C. Aerial surveying</li> <li>★ D. Compass surveying</li> </ul> 'Blaine air permissibility test' is used to find the ★ A. strength   | Chosen Option : B  Question ID : 1034358893 Status : Answered Chosen Option : C                               |
| Ans<br>Q.53 | <ul> <li>★ A. Plane table surveying</li> <li>★ B. Chain surveying</li> <li>★ C. Aerial surveying</li> <li>★ D. Compass surveying</li> <li>'Blaine air permissibility test' is used to find the</li> <li>★ A. strength</li> <li>★ B. setting time</li> </ul>                        | Chosen Option : B  Question ID : 1034358893 Status : Answered Chosen Option : C                               |
| Q.53        | <ul> <li>★ A. Plane table surveying</li> <li>★ B. Chain surveying</li> <li>★ C. Aerial surveying</li> <li>★ D. Compass surveying</li> <li>'Blaine air permissibility test' is used to find the</li> <li>★ A. strength</li> <li>★ B. setting time</li> <li>★ C. fineness</li> </ul> | Chosen Option : B  Question ID : 1034358893 Status : Answered Chosen Option : C                               |
| Ans         | <ul> <li>★ A. Plane table surveying</li> <li>★ B. Chain surveying</li> <li>★ C. Aerial surveying</li> <li>★ D. Compass surveying</li> <li>'Blaine air permissibility test' is used to find the</li> <li>★ A. strength</li> <li>★ B. setting time</li> </ul>                        | Chosen Option : B  Question ID : 1034358893 Status : Answered Chosen Option : C                               |
| Ans<br>Q.53 | <ul> <li>★ A. Plane table surveying</li> <li>★ B. Chain surveying</li> <li>★ C. Aerial surveying</li> <li>★ D. Compass surveying</li> <li>'Blaine air permissibility test' is used to find the</li> <li>★ A. strength</li> <li>★ B. setting time</li> <li>★ C. fineness</li> </ul> | Chosen Option : B  Question ID : 1034358893 Status : Answered Chosen Option : C                               |
| Ans<br>Q.53 | <ul> <li>★ A. Plane table surveying</li> <li>★ B. Chain surveying</li> <li>★ C. Aerial surveying</li> <li>★ D. Compass surveying</li> <li>'Blaine air permissibility test' is used to find the</li> <li>★ A. strength</li> <li>★ B. setting time</li> <li>★ C. fineness</li> </ul> | Chosen Option : B  Question ID : 1034358893 Status : Answered Chosen Option : C  property of Portland cement. |

### Q.54 Which of the following sewage treatment components is used to remove oil and grease from the sewage?

Ans

X A. Detritus tank

X B. Grit chamber



C. Skimming tank

X D. Imhoff tank

Question ID: 1034358964 Status: Answered

Chosen Option: C

### Q.55 If Maize requires about 8 cm of water after every 20 days, and the base period for maize is 120 days, then what is the value of delta for maize?

✓ B. 48 cm

X C. 45 cm

X D. 40 cm

Question ID: 1034358930 Status: Answered Chosen Option: B

Q.56 Which of the following is NOT a type of flood control structure?

X B. Groins

C. Subsurface barrier

X D. Levees

Question ID: 1034358941 Status: Answered Chosen Option: C

# Q.57 In soil particle size analysis, if D<sub>10</sub>, D<sub>30</sub> and D<sub>60</sub> represent particle size correspond to 10%, 30% and 60 % finer than these sizes respectively, then the coefficient of curvature is given

Ans

$$imes$$
 A.  $\frac{D_{10}^2}{D_{60} \times D_{30}}$ 

$$\times$$
 B.  $\frac{D_{60}}{D_{10}}$ 

$$\checkmark \text{ C. } \frac{D_{30}^2}{D_{60} \times D_{10}}$$

$$ightharpoonup$$
 D.  $\frac{D_{60}^2}{D_{30} \times D_{10}}$ 

Question ID: 1034358904 Status: Answered

Chosen Option: C

| Q.58        | Following are the major irrigation projects of India command area (CCA) the highest?   | . In which project is the culturable                                      |
|-------------|--|---|
| Ans         | 🗙 A. Beas Project  |   |
|             | X B. Nagarjuna Sagar Project   |   |
|             | C. Bhakra Nangal Project   |   |
|             | 🔀 D. Gandak Project  |   |
|             |  |   |
|             |  | Question ID: 1034358945   |
|             |  | Status : <b>Not Answered</b> Chosen Option :                              |
|             |  | Chosen option.  |
| Q.59        | Which of the following earth pressure theories ass<br>ground and failure surfaces are straight planes, ar<br>the backfill slope?   |   |
| Ans         | X A. Passive earth pressure  |   |
|             | X B. Active earth pressure   |   |
|             | C. Rankine's earth pressure theory   |   |
|             | X D. Coulomb's wedge theory  |   |
|             |  |   |
|             |  | Question ID : 1034358915  |
|             |  | Status : <b>Answered</b> Chosen Option : <b>C</b>                         |
|             |  | Chosen Option . C   |
| Ans         | The quantity of coarse aggregate required for 2 kr road with 12 cm thick is: (Assume no additional m  A. 980 cu. m   |   |
|             | <ul><li>★ B. 940 cu. m</li><li>✓ C. 960 cu. m</li></ul>  |   |
|             | <b>X</b> B. 940 cu. m  |   |
|             | <ul><li>★ B. 940 cu. m</li><li>✓ C. 960 cu. m</li></ul>  | Question ID: 1034358887 Status: Answered Chosen Option: C                 |
| ).61        | <ul> <li>X B. 940 cu. m</li> <li>✓ C. 960 cu. m</li> <li>X D. 920 cu. m</li> </ul> The estimated value of a built-up property at the entire of the state of t | Status : Answered Chosen Option : C                                       |
|             | <ul> <li>★ B. 940 cu. m</li> <li>★ C. 960 cu. m</li> <li>★ D. 920 cu. m</li> </ul> The estimated value of a built-up property at the edismantled is called:  | Status : Answered Chosen Option : C                                       |
|             | <ul> <li>★ B. 940 cu. m</li> <li>★ C. 960 cu. m</li> <li>★ D. 920 cu. m</li> </ul> The estimated value of a built-up property at the edismantled is called: <ul> <li>★ A. market value</li> </ul>  | Status : Answered<br>Chosen Option : C                                    |
|             | <ul> <li>★ B. 940 cu. m</li> <li>★ C. 960 cu. m</li> <li>★ D. 920 cu. m</li> </ul> The estimated value of a built-up property at the edismantled is called: <ul> <li>★ A. market value</li> <li>★ B. scrap value</li> </ul>  | Status : Answered<br>Chosen Option : C                                    |
|             | <ul> <li>★ B. 940 cu. m</li> <li>★ C. 960 cu. m</li> <li>★ D. 920 cu. m</li> </ul> The estimated value of a built-up property at the edismantled is called: <ul> <li>★ A. market value</li> <li>★ B. scrap value</li> <li>★ C. salvage value</li> </ul>  | Status : Answered Chosen Option : C                                       |
|             | <ul> <li>★ B. 940 cu. m</li> <li>★ C. 960 cu. m</li> <li>★ D. 920 cu. m</li> </ul> The estimated value of a built-up property at the edismantled is called: <ul> <li>★ A. market value</li> <li>★ B. scrap value</li> </ul>  | Status : Answered<br>Chosen Option : C                                    |
|             | <ul> <li>★ B. 940 cu. m</li> <li>★ C. 960 cu. m</li> <li>★ D. 920 cu. m</li> </ul> The estimated value of a built-up property at the edismantled is called: <ul> <li>★ A. market value</li> <li>★ B. scrap value</li> <li>★ C. salvage value</li> </ul>  | Status : Answered<br>Chosen Option : C                                    |
| Q.61<br>Ans | <ul> <li>★ B. 940 cu. m</li> <li>★ C. 960 cu. m</li> <li>★ D. 920 cu. m</li> </ul> The estimated value of a built-up property at the edismantled is called: <ul> <li>★ A. market value</li> <li>★ B. scrap value</li> <li>★ C. salvage value</li> </ul>  | Status : Answered Chosen Option : C  and of its useful life without being |

Q.62 Arrange the following layers of flexible pavement in sequential order (from bottom to top). Surface course, Subgrade course, Subbase course, Base course
 Ans A. Subgrade course, Subbase course, Base course, Surface course

X B. Subbase course, Base course, Subgrade course, Surface course

X C. Surface course, Subgrade course, Base course, Subbase course

💢 D. Base course, Subgrade course, Subbase course, Surface course

Question ID : 1034358949 Status : Answered Chosen Option : A

Q.63 Identify the type of retaining wall shown in the figure.



Ans X A. Gravity wall

X B. Cantilever retaining wall

C. Counterfort retaining wall

X D. Semi gravity retaining wall

Question ID: 1034358973 Status: Answered Chosen Option: C

Q.64 As per IS 456 : 2000, the design bond stress in limit state method for plain bars in tension for M20 concrete is:

Ans

✓ A. 1.2 N/mm<sup>2</sup>

X B. 1.7 N/mm<sup>2</sup>

X C. 1.4 N/mm<sup>2</sup>

X D. 1.9 N/mm<sup>2</sup>

Question ID : 1034358982 Status : Answered

Chosen Option: A

Q.65 The number of hectares of land irrigated for full growth of a given crop by a supply of 1 m<sup>3</sup>/s of water continuously during the entire base period (B) of that crop, is defined as:

Ans X A. delta

X B. optimum water depth

C. duty

X D. kor depth

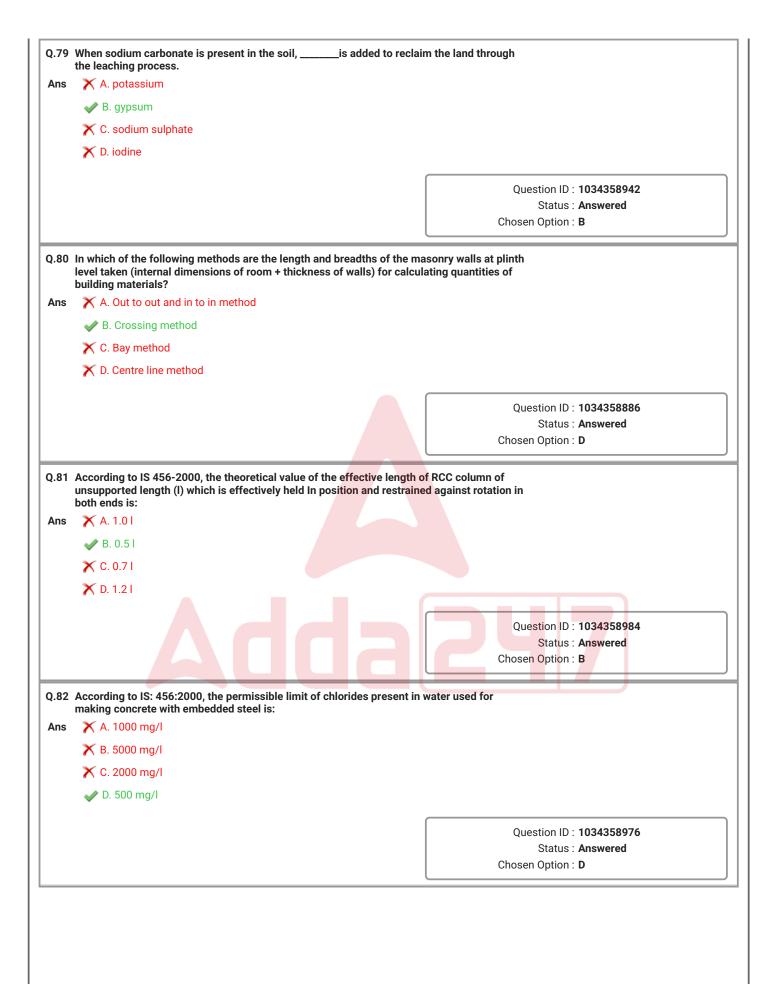
Question ID : 1034358931 Status : Answered

Chosen Option :  ${\bf C}$ 

| Q.66 | The recommended spacing of manholes for sewers having a diameter of straight runs as per IS: 4111 (Part 1) – 1986 (Reaffirmed 2001) is:        | over 2.0 m on                              |
|------|--|--|
| Ans  | X A. 200 m   |  |
|      | <b>✓</b> B. 300 m  |  |
|      | <b>X</b> C. 50 m   |  |
|      | X D. 100 m   |  |
|      |  |  |
|      |  | Question ID : 1034358963 Status : Answered |
|      |  | Chosen Option : <b>D</b>                   |
|      |  |  |
| Q.67 | A solid shaft of 100 mm diameter is used to transmit torque, find the m transmitted by the shaft if the maximum shear stress induced to the sh |  |
| Ans  | × A. 2800πk N-mm   |  |
|      | <b>Χ</b> B. 2500π kN-mm  |  |
|      | × C. 1500π kN-mm   |  |
|      | <b>✓</b> D. 2000π kN-mm  |  |
|      |  |  |
|      |  | Question ID : 1034358975 Status : Answered |
|      |  | Chosen Option : <b>D</b>                   |
|      |  |  |
| Q.68 | Which type of water distribution system can water be made to circulate through the whole distribution system?                                  | continuously                               |
| Ans  | A. Combined system   |  |
|      | X B. Radial system   |  |
|      | ✓ C. Grid iron system  |  |
|      | X D. Dead end system   |  |
|      | .,   |  |
|      |  | Question ID : 1034358960                   |
|      |  | Status : Answered Chosen Option : C        |
|      |  | Chosen Option . C                          |
| Q.69 | Which of the following is the ruling principle of surveying?   |  |
| Ans  | X A. Working from point to point   |  |
|      | B. Working from whole to part  |  |
|      | X C. Working from higher elevation to lower elevation  |  |
|      | X D. Working from part to whole  |  |
|      |  | Outsetion ID : 400 455000                  |
|      |  | Question ID : 1034358892 Status : Answered |
|      |  | Chosen Option : <b>B</b>                   |
|      |  |  |
|      |  |  |
|      |  |  |

| 0.70 | Select the correct order of following surface water treatment processor  | es chronologically                                |
|------|--|---|
| Ans  | A. Filtration, aeration, screening, disinfection, sedimentation          | on onoiogiouny.                                   |
|      | B. Screening, aeration, sedimentation, filtration, disinfection          |   |
|      | C. Aeration, screening, filtration, sedimentation, disinfection          |   |
|      | X D. Screening, filtration, aeration, sedimentation, disinfection        |   |
|      | , v 5. Solecting, matrice, actuation, estimation, administration         |   |
|      |  | Question ID : 1034358959                          |
|      |  | Status : Answered                                 |
|      |  | Chosen Option : <b>B</b>                          |
| Q.71 | For a soil sample, the ratio of the volume of voids to the volume of sol | ids is called:                                    |
| Ans  | ✓ A. the void ratio  |   |
|      | X B. porosity  |   |
|      | ★ C. the degree of saturation  |   |
|      | X D. percentage air voids  |   |
|      |  |   |
|      |  | Question ID : 1034358901                          |
|      |  | Status : <b>Answered</b> Chosen Option : <b>A</b> |
|      |  | Chosen option . A                                 |
| Q.72 | What does the groundwater table signify?                                 |   |
| Ans  | X A. Aquifuge  |   |
|      | X B. Aquitard  |   |
|      | ★ C. Confined aquifer  |   |
|      | ✓ D. Unconfined aquifer  |   |
|      |  |   |
|      |  | Question ID : 1034358908                          |
|      |  | Status : Answered Chosen Option : D               |
|      |  | Chosch option . D                                 |
| Q.73 | Which of the following infiltration indexes represents the average rate  | of rainfall above                                 |
|      | which the rainfall volume is equal to the runoff volume?                 |   |
| Ans  | X A. Drought index   |   |
|      | X B. Aridity index   |   |
|      | ✓ C. Φ-index   |   |
|      | X D. W = index   |   |
|      |  | Question ID : 1034358929                          |
|      |  | Status : Answered                                 |
|      |  | Chosen Option : <b>C</b>                          |
|      |  |   |
|      | In the effective stress principle, pore water cannot resist and          | is taken as                                       |
| Ans  | ✓ A. shear stress, zero  |   |
|      | X B. tensile stress, unity   |   |
|      | C. zero, shear stress  |   |
|      | X D. compressive stress, unity   |   |
|      |  | Out 15 15 1001050000                              |
|      |  | Question ID: 1034358909 Status: Answered          |
|      |  | Chosen Option : A                                 |

| Q.75 | A soil sample has a water content of 10% and a void ratio soil sample is 2.70, determine the degree of saturation. | io of 0.5. If the specific gravity of the                    |
|------|--|--|
| Ans  | <b>✓</b> A. 0.54   |  |
|      | <b>★</b> B. 0.45   |  |
|      | <b>★</b> C. 0.49   |  |
|      | <b>X</b> D. 0.59   |  |
|      |  |  |
|      |  | Question ID : 1034358902<br>Status : Answered                |
|      |  | Chosen Option : A  |
|      |  | ·  |
| Q.76 | The range of Manning's value for cement plastered mason  | conry lined canal is:  |
| Ans  | ✓ A. 0.012 − 0.015   |  |
|      | <b>★</b> B. 0.065 − 0.08   |  |
|      | <b>★</b> C. 0.20 – 0.25  |  |
|      | <b>★</b> D. 0.0018 − 0.0020  |  |
|      |  | Question ID : 1034358937                                     |
|      |  | Status : Answered  |
|      |  | Chosen Option : A  |
|      | <ul><li>★ C. continuous beam</li><li>★ D. cantilever beam</li></ul>  |  |
|      |  |  |
|      |  | Question ID : 1034358987<br>Status : Answered                |
|      |  | Chosen Option: D   |
|      |  |  |
| Q.78 | Which of the following repair methods is used for stoppi swimming pools?   | ing leakages in dams, basements,                             |
| Ans  | X A. Placing   |  |
|      | ✓ B. Injection   |  |
|      | •  |  |
|      | C. Sealant   |  |
|      | C. Sealant  D. Plastering  |  |
|      | C. Sealant  D. Plastering  |  |
|      |  | Question ID : 1034358980                                     |
|      |  | Question ID : 1034358980 Status : Answered Chosen Option : C |



# Q.83 Which of following is NOT an advantage of irrigation? A. Increases dampness and water borne diseases Ans X B. Elimination of mixed cropping X C. Increases food production X D. Increases groundwater recharge Question ID: 1034358925 Status: Answered Chosen Option: A Q.84 The ratio of the volume of water obtained by gravity to the total volume of material (aquifer) drained is known as: X A. specific retention Ans X B. transmissibility C. specific yield X D. storativity Question ID: 1034358938 Status: Answered Chosen Option: C Q.85 The ratio of the amount of consolidation at a given time within a soil mass to the total amount of consolidation obtainable under a given stress condition is called: X A. the primary consolidation Ans B. the degree of consolidation X C. the secondary consolidation X D. an initial consolidation Question ID: 1034358911 Status: Answered Chosen Option: B Q.86 The point of contraflexure exists for which type of beams? X A. Cantilever beam B. Overhanging beam X C. Fixed beam X D. Simply supported beam Question ID: 1034358972 Status: Answered Chosen Option: B

Q.87 In flexible pavements, the \_\_\_\_\_ is an application of low viscous cutback bitumen to an absorbent surface like granular bases on which the binder layer is placed.

Ans

X A. seal coat

X B. intermediate coat

C. prime coat

X D. track coat

Question ID : 1034358951 Status : Answered

Chosen Option : C

Q.88 The hydraulic mean depth of the circular sewer of the diameter D is equal to:

Ans

X A. D/3

**X** B. D/2

✓ C. D/4

**X** D. D

Question ID: 1034358962 Status: Answered

Chosen Option: C

Q.89 Which of the following distillates is NOT used for the preparation of cutback Bitumen?

Ans

X A. Furnace oil

B. Linseed oil

X C. Naphtha

X D. Diesel oil

Question ID: 1034358947

Status : Answered Chosen Option : A

Q.90 The relationship between the elastic constants such as Young's modulus (E), rigidity modulus (G) and bulk modulus (K), is given by:

Ans

$$\nearrow$$
 B.  $E = \frac{9KG}{3G + K}$ 

$$\nearrow$$
 C.  $E = \frac{9KG}{3K - G}$ 

$$\nearrow$$
 D.  $E = \frac{KG}{K+G}$ 

Question ID: 1034358970

Status: Answered

Chosen Option :  ${\bf A}$ 

### Q.91 Gross irrigated area is equal to:

Ans X A. net irrigated area in a year – area irrigated more than once in the same year

X B. net irrigated area in a year - area irrigated more than once in a season

C. net irrigated area in a year + area irrigated more than once in the same year

X D. net irrigated area in a year + area irrigated more than once in a season

Question ID: 1034358933 Status: Answered

Chosen Option :  ${\bf C}$ 

### Q.92 Which of the following is NOT a type of sewerage system?

Ans X A. Partially combined system

X B. Separate system

X C. Combined system

D. Reticulated system

Question ID : 1034358961 Status : Answered

Chosen Option : D

Q.93 The angle of internal friction angle for a cohesionless soil is 45°. The inclination of the failure plane behind a vertical wall in the passive pressure case is inclined to horizontal at:

Ans X A. 90°

**X** B. 0°

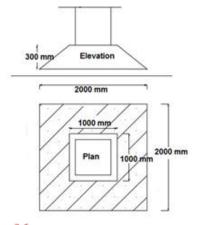
X C. 67.5°

✓ D. 22.5°

Question ID : 1034358916 Status : Answered

Chosen Option: D

#### Q.94 What is the volume of the trapezoidal footing in the given figure?



Ans

X A. 1.75 cu. m

X B. 1.15 cu. m

C. 1.40 cu. m

X D. 1.25 cu. m

Question ID: 1034358888 Status: Answered Chosen Option: C

### Q.95 Select the demerit of the triaxial test from the following.

Ans X A. The pore pressure changes and the volumetric changes can be measured directly.

X B. The stress distribution on the failure plane is uniform.

C. The apparatus is elaborate, costly and bulky as compared to other shear test equipment.

X D. There is complete control over the drainage conditions, i.e., all three types of drainages.

Question ID : 1034358914 Status : Answered

Chosen Option: C

Q.96 What is the cost of brickwork required for a wall 4 m long, 3 m high and 30 cm thick, if the rate of brickwork is ₹200 per cubic metre?

Δne

A. ₹720

X B. ₹950

X C. ₹840

X D. ₹620

Question ID: 1034358882 Status: Answered

Chosen Option : A

Q.97 In a geometric design of a railway track, the maximum gradient to which the track may be laid in a hilly area is called a: A. pusher gradient Ans X B. ruling gradient X C. momentum gradient X D. station yard gradient Question ID: 1034358954 Status: Answered Chosen Option: C are used to overcome the accelerating effect of high temperature on the setting Q.98 properties of concrete in hot weather concreting. A. Retarders Ans X B. Accelerators X C. Plasticizers X D. Catalysers Question ID: 1034358979 Status: Answered Chosen Option : A Q.99 The traffic signal 'STOP' sign as shown comes under the X A. informative signs X B. warning signs C. regulatory signs X D. cautionary signs Question ID: 1034358956 Status: Answered Chosen Option: C Q.100 Which of the following is NOT the ill effect of irrigation? X A. Water logging X B. Dampness X C. Soil salinisation D. Increased groundwater level Question ID: 1034358940 Status: Answered Chosen Option: D

Q.101 The numerical difference between the plastic limit and shrinkage limit of a soil is known as the:

Ans

A. shrinkage index

- X B. plasticity index
- X C. consistency index
- 💢 D. shrinkage ratio

Question ID : 1034358905 Status : Answered

Chosen Option : A

Q.102 The expression for crippling load (P) when both end of the column are hinged is given by:
Where I = actual length of column, E = Youngs Modulus of elasticity; I = Moment of Inertia

Ans

$$\nearrow$$
 A.  $P = \frac{2EI\pi^2}{l^2}$ 

$$B. P = \frac{4EI\pi^2}{l^2}$$

$$\nearrow$$
 C.  $P = \frac{EI\pi^2}{4l^2}$ 

Question ID: 1034358974 Status: Answered

Chosen Option : D

Q.103 In hydrostatics, the centre of pressure is calculated using the:

Ans

- X A. principle of Bernoulli
- X B. principle of momentum
- X C. principle of energy
- D. principle of moments

Question ID : 1034358919 Status : Answered

Chosen Option: D

Q.104 The open circular RCC water tank of diameter 5 m resting on firm ground with flexible base for 350 kilo litres capacity and height of the wall is 4 m. What is the hoop tension at the base of the wall? Take unit weight of water = 10kN/m<sup>3</sup>

Ans

X A. 60 kN

X C. 75 kN

X D. 85 kN

Question ID : 1034358986 Status : Answered

Chosen Option : B

|              | 5 The extra water that has to be supplied for different crop periods ove<br>seasons is known as:  | stap in amercia   |
|--------------|---|---|
| Ans          | X A. outlet factor  |   |
|              | ✓ B. overlap allowance  |   |
|              | C. kor watering   |   |
|              | X D. capacity factor  |   |
|              |   |   |
|              |   | Question ID : 1034358934 Status : Answered                |
|              |   | Chosen Option : <b>B</b>                                  |
|              |   |   |
| Q.106        | 6 Read the following statements and select the correct option.<br>Statement-1: Tar is a dark viscous liquid produced by destructive dis<br>material such as coal, oil, lignite and wool.<br>Statement-2: Bitumen is a non-crystalline solid or viscous material of<br>by natural or refinery processes.                                   |   |
| Ans          | X A. Statement-1 is true and statement-2 is false   |   |
|              | ✓ B. Both statements are true   |   |
|              | C. Both statements are false  |   |
|              | X D. Statement-1 is false and statement-2 is true   |   |
|              |   | Question ID : 1034358880<br>Status : Answered             |
|              |   | Chosen Option : <b>B</b>                                  |
| Q.107        | 7 In the surveyor's telescope used for levelling, the is a line that  |   |
| Q.107<br>Ans | optical centre of the objective and the intersections of crosshairs.  |   |
|              | optical centre of the objective and the intersections of crosshairs.  |   |
|              | optical centre of the objective and the intersections of crosshairs.  A. height of instrument   |   |
|              | optical centre of the objective and the intersections of crosshairs.  A. height of instrument  B. line of collimation   |   |
|              | optical centre of the objective and the intersections of crosshairs.  A. height of instrument  B. line of collimation  C. diaphragm   |   |
| Ans          | optical centre of the objective and the intersections of crosshairs.  A. height of instrument  B. line of collimation  C. diaphragm   | Question ID: 1034358897 Status: Answered Chosen Option: B |
| Ans          | optical centre of the objective and the intersections of crosshairs.  A. height of instrument  B. line of collimation  C. diaphragm  D. parallax  B. A soil has a liquid limit of 25% and a flow index of 12.5%. If the plastic water content of the soil in its natural condition in the field is 20%, do                                | Question ID: 1034358897 Status: Answered Chosen Option: B |
| Ans          | optical centre of the objective and the intersections of crosshairs.  A. height of instrument  B. line of collimation  C. diaphragm  D. parallax  A soil has a liquid limit of 25% and a flow index of 12.5%. If the plastic water content of the soil in its natural condition in the field is 20%, defindex:                            | Question ID: 1034358897 Status: Answered Chosen Option: B |
| Ans          | optical centre of the objective and the intersections of crosshairs.  A. height of instrument  B. line of collimation  C. diaphragm  D. parallax  B. A soil has a liquid limit of 25% and a flow index of 12.5%. If the plasti water content of the soil in its natural condition in the field is 20%, de index:  A. 10%                  | Question ID: 1034358897 Status: Answered Chosen Option: B |
| Ans          | optical centre of the objective and the intersections of crosshairs.  A. height of instrument  B. line of collimation  C. diaphragm  D. parallax  A soil has a liquid limit of 25% and a flow index of 12.5%. If the plasti water content of the soil in its natural condition in the field is 20%, do index:  A. 10%  B. 50%             | Question ID: 1034358897 Status: Answered Chosen Option: B |
| Ans          | optical centre of the objective and the intersections of crosshairs.  A. height of instrument  B. line of collimation  C. diaphragm  D. parallax  B. A soil has a liquid limit of 25% and a flow index of 12.5%. If the plastic water content of the soil in its natural condition in the field is 20%, do index:  A. 10%  B. 50%  C. 80% | Question ID: 1034358897 Status: Answered Chosen Option: B |
| Ans          | optical centre of the objective and the intersections of crosshairs.  A. height of instrument  B. line of collimation  C. diaphragm  D. parallax  B. A soil has a liquid limit of 25% and a flow index of 12.5%. If the plastic water content of the soil in its natural condition in the field is 20%, do index:  A. 10%  B. 50%  C. 80% | Question ID: 1034358897 Status: Answered Chosen Option: B |

Q.109 The coefficient of permeability of soil deposit in-situ condition can be determined by the:

Ans 🛮 🗙 A. constant head permeability test

B. pump out test

X C. consolidation test data

X D. variable head permeability test

Question ID : 1034358907 Status : Answered

Chosen Option :  ${\bf B}$ 

Q.110 Which of the following equipment does NOT make use of the absorption process to control gaseous pollutants in industries?

Ans X A. Packed columns

X B. Spray towers

X C. Venture scrubbers

D. Incinerators

Question ID : 1034358966 Status : Answered

Chosen Option: D

