

Junior Engineer Civil Mechanical Electrical and Quantity Surveying and Contract Examination 2019

Exam Date	28/10/2020
Exam Time	3:00 PM - 5:00 PM
Subject	Junior Engineer 2019 Civil

Section : General Intelligence and Reasoning

Q.1 Which option represents the correct order of the given words as they would appear in an English dictionary?

1. Budget
2. Butcher
3. Buffalo
4. Butterfly
5. Buzzard

- Ans**
- ☒ 1. 1, 3, 2, 4, 5
 - ☐ 2. 3, 1, 2, 4, 5
 - ☐ 3. 1, 2, 3, 4, 5
 - ☐ 4. 2, 1, 3, 4, 5

Question ID : 6549786

Status : Answered

Chosen Option : 1

Q.2 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.

LIST : PEWP :: SALE : ____

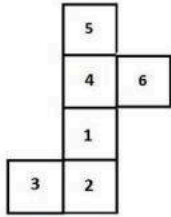
- Ans**
- ☐ 1. WPVA
 - ☐ 2. WVPA
 - ☐ 3. WPWA
 - ☒ 4. WWPA

Question ID : 65497816

Status : Answered

Chosen Option : 4

Q.3 The following figure can be folded to form a cube. Find the number on the face opposite the face showing the number 2.



- Ans
- ☒ 1. 3
 - ☒ 2. 5
 - ☒ 3. 6
 - ☒ 4. 4

Question ID : 65497843
Status : Answered
Chosen Option : 4

Q.4 Which number from the options will replace the question mark (?) to continue the given number series?

15, 19, 28, 44, 69, ?

- Ans
- ☒ 1. 105
 - ☒ 2. 100
 - ☒ 3. 103
 - ☒ 4. 99

Question ID : 65497831
Status : Answered
Chosen Option : 1

Q.5 Which of the following pairs of numbers and signs, when their positions are interchanged, will correctly solve the given mathematical equation?

$$6 \div 3 \times 2 + 4 - 7 = 26.5$$

- Ans
- ☒ 1. 4 and 7, $\times$ and $\div$
 - ☒ 2. 6 and 2, + and -
 - ☒ 3. 3 and 6, - and $\times$
 - ☒ 4. 3 and 7, + and -

Question ID : 65497840
Status : Answered
Chosen Option : 3

Q.6 In a family of six persons, there are two couples and three males. Rachana is married to Pavan's son. Madhavi is the mother of Hruday and is married to Pavan. Rachana is married to the only brother of Vishal. Divya is the daughter of Pavan's son. Which of the following statements is INCORRECT?

- Ans
- ☒ 1. Madhavi is Divya's paternal grandmother.
 - ☒ 2. Pavan is Vishal's brother.
 - ☒ 3. Hruday and Rachana are married to each other.
 - ☒ 4. Vishal is Divya's paternal uncle.

Question ID : 65497828
Status : Answered
Chosen Option : 2

Q.7 Select the alternative that arranges the following words in a logical and meaningful order.

- 1.Design Book Cover
- 2.Writing
- 3.Deciding on Title
- 4.Publishing
- 5.Choosing a Topic
- 6.Editing

- Ans
- ☐ 1. 5, 2, 6, 1, 3, 4
 - ☐ 2. 5, 6, 2, 1, 3, 4
 - ☐ 3. 5, 6, 2, 3, 1, 4
 - ☒ 4. 5, 2, 6, 3, 1, 4

Question ID : 6549788

Status : Answered

Chosen Option : 4

Q.8 If 'GARDEN' is coded as '14298105' and 'INSERT' is coded as '18511092' then how will 'HEALTH' be coded as?

- Ans
- ☐ 1. 165023126
 - ☒ 2. 161023216
 - ☐ 3. 160523216
 - ☐ 4. 161032126

Question ID : 65497822

Status : Answered

Chosen Option : 2

Q.9 Three statements are given followed by four conclusions numbered I, II, III and IV. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

- All girls are experts.
- Some experts are tourists.
- All tourists are foreigners.

Conclusions:

- I. Some foreigners are experts.
- II. Some foreigners are girls.
- III. No foreigner is a girl.
- IV. All tourists are experts.

- Ans
- ☒ 1. Conclusion I and either II or III follows
 - ☐ 2. Conclusion IV and either II or III follows
 - ☐ 3. Conclusion I, II and IV follow
 - ☐ 4. All conclusions follow

Question ID : 65497824

Status : Answered

Chosen Option : 1

Q.10 Which option represents the correct order of the given words as they would appear in an English dictionary?

- 1.Circumcircle
- 2.Circumjacent
- 3.Circularize
- 4.Circumpolar
- 5.Circumfluent

Ans ☒ 1. 3, 1, 5, 4, 2
☒ 2. 3, 1, 5, 2, 4
☒ 3. 3, 1, 2, 5, 4
☒ 4. 3, 5, 1, 2, 4

Question ID : 6549787

Status : Answered

Chosen Option : 2

Q.11 Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure.



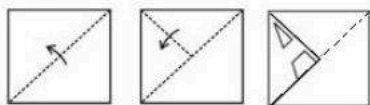
Ans ☒ 1.
☒ 2.
☒ 3.
☒ 4.

Question ID : 65497847

Status : Answered

Chosen Option : 1

Q.12 A paper is folded and cut as shown below. How will it appear when unfolded?

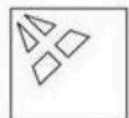


Ans

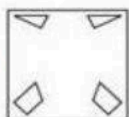
✓ 1.



✗ 2.



✗ 3.



✗ 4.



Question ID : 65497848

Status : Answered

Chosen Option : 1

Q.13 Which number from the options will replace the question mark (?) to continue the given number series?

4, 40, 10, 20, 23, 20, 67, 30, 137, 60, ?

Ans

✓ 1. 409

✗ 2. 209

✗ 3. 150

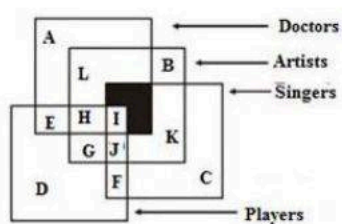
✗ 4. 105

Question ID : 65497832

Status : Not Attempted and
Marked For Review

Chosen Option : --

Q.14 Study the following diagram and answer the question based on the diagram.



Which region represents Players and Singers who are neither Artists nor Doctors?

- Ans
- ☒ 1. J
 - ☒ 2. F
 - ☒ 3. C
 - ☒ 4. I

Question ID : 65497850

Status : Answered

Chosen Option : 2

Q.15 The total of three numbers is 240. The second number is four times the first number. The third number is three times the first number. What is the third number?

- Ans
- ☒ 1. 90
 - ☒ 2. 60
 - ☒ 3. 180
 - ☒ 4. 120

Question ID : 65497841

Status : Answered

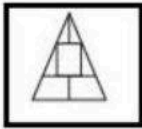
Chosen Option : 1

Q.16 Select the option in which the given figure (x) is embedded (Rotation is not allowed).

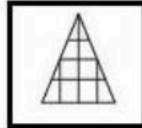


Ans

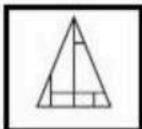
☒ 1.



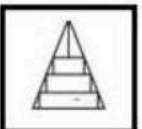
☒ 2.



☒ 3.



☒ 4.



Question ID : 65497844

Status : Answered

Chosen Option : 2

Q.17 Select the set in which the numbers are related in the same way as are the numbers of the following set.

(4, 7, 38)

Ans ☒ 1. (8, 19, 89)

☒ 2. (9, 21, 108)

☒ 3. (7, 16, 83)

☒ 4. (3, 3, 18)

Question ID : 65497837

Status : Answered

Chosen Option : 4

Q.18 'Abundant' is related to 'Scarce' and 'Forward' is related to 'Backward' in the same way as 'Expand' is related to

Ans ☒ 1. Demand

☒ 2. Contract

☒ 3. Close

☒ 4. Withdraw

Question ID : 65497812

Status : Answered

Chosen Option : 2

Q.19 Pavani is the mother of Kavya. Kavya is the sister of Drupad. Drupad is the father of Jamuna. How is Pavani related to Jamuna?

- Ans**
- ☒ 1. Grandmother
 - ☐ 2. Aunt
 - ☐ 3. Sister
 - ☐ 4. Mother

Question ID : 65497827
Status : Answered
Chosen Option : 1

Q.20 Which letter cluster from the options will replace the question mark (?) to complete the given series?
CLKP, BNHT, APEX, ZRBB, ?

- Ans**
- ☐ 1. YTFY
 - ☒ 2. YTYF
 - ☐ 3. YYTF
 - ☐ 4. YYFT

Question ID : 6549784
Status : Answered
Chosen Option : 2

Q.21 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.

WRIST : RWPTS :: MODEL : _____

- Ans**
- ☒ 1. OMKLE
 - ☐ 2. OMJEL
 - ☐ 3. OMJLE
 - ☐ 4. OMKEL

Question ID : 65497817
Status : Answered
Chosen Option : 1

Q.22 Which two signs should be interchanged to make the given equation correct?

$$16 + 4 - 22 \div 2 \times 5 = 58$$

- Ans**
- ☒ 1. + and ×
 - ☐ 2. ÷ and +
 - ☐ 3. ÷ and ×
 - ☐ 4. + and −

Question ID : 65497839
Status : Answered
Chosen Option : 1

Q.23 Sarayu departed from her hostel to reach her institute. She walked 65 m towards the north, and then she turned right and walked 30 m. Then she turned left and walked 45 m. After that, she turned right and walked 20 m. Then she finally turned left and walked 10 m and reached her institute. What is the shortest distance between Sarayu's hostel and her institute?

- Ans**
- ☒ 1. 120 m
 - ☒ 2. 130 m
 - ☒ 3. 150 m
 - ☒ 4. 140 m

Question ID : 65497826

Status : Marked For Review

Chosen Option : 3

Q.24 Select the option that is correct for the bracketed letters and numbers with respect to their inclusion in the given series.

J, E, 20, L, Z, (21), P, U, 22, V, P, 24, (E), K, 25.

- Ans**
- ☒ 1.

The first bracketed number is incorrect and the second bracketed letter is correct.

- ☒ 2. Both the bracketed number and letters are correct.
- ☒ 3. Both the bracketed number and letters are incorrect.
- ☒ 4.

The first bracketed number is correct and the second bracketed letter is incorrect.

Question ID : 6549782

Status : Not Attempted and
Marked For Review

Chosen Option : --

Q.25 'Bangladesh' is related to 'Kabaddi' in the same way as 'Sri Lanka' is related to ____.

- Ans**
- ☒ 1. Volleyball
 - ☒ 2. Cricket
 - ☒ 3. Football
 - ☒ 4. Baseball

Question ID : 65497810

Status : Answered

Chosen Option : 2

Q.26 Choose the pair that best represents a similar relationship to the one expressed in the original pair of words.

Bat : Pup

- Ans**
- ☒ 1. Mouse : Doe
 - ☒ 2. Cat : Queen Bee
 - ☒ 3. Puppie : Dog
 - ☒ 4. Deer : Fawn

Question ID : 65497814

Status : Marked For Review

Chosen Option : 3

Q.27 Six children A, B, C, D, E and F are standing in a line. F is standing second to the right of E and to the immediate left of C. B is between D and C. Who is standing at the extreme right?

- Ans**
- ☒ 1. D
 - ☐ 2. E
 - ☐ 3. A
 - ☐ 4. C

Question ID : 65497829

Status : Answered

Chosen Option : 1

Q.28 Select the number pair in which the two numbers are related in the same way as are the two numbers of the following number pair.

12 : 60

- Ans**
- ☐ 1. 15 : 171
 - ☒ 2. 11 : 45
 - ☐ 3. 13 : 67
 - ☐ 4. 14 : 69

Question ID : 65497836

Status : Not Attempted and
Marked For Review

Chosen Option : --

Q.29 Which letter-cluster from the options will replace the question mark (?) to complete the given series?

LAM, MEN, NIO, OOP, ?

- Ans**
- ☐ 1. PQU
 - ☐ 2. PSQ
 - ☒ 3. PUQ
 - ☐ 4. PQS

Question ID : 6549783

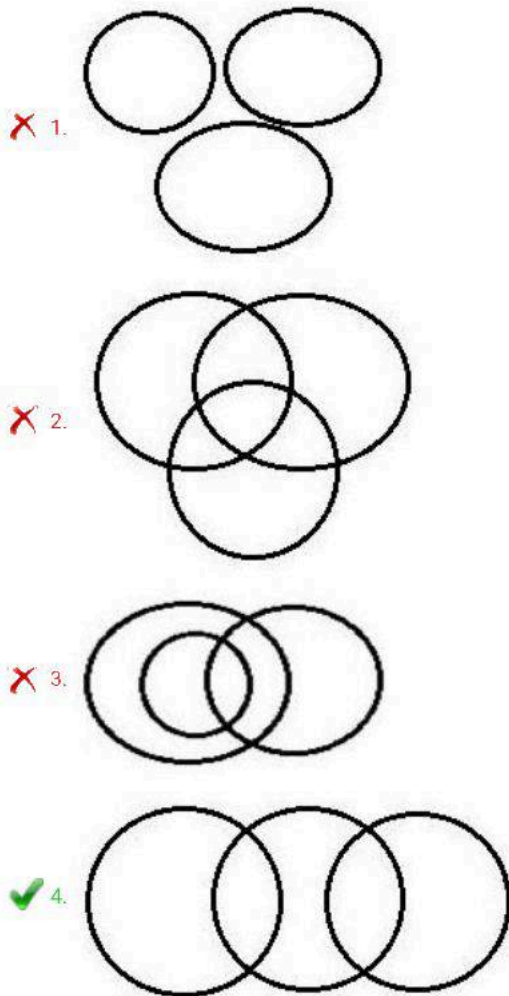
Status : Answered

Chosen Option : 3

Q.30 Select the Venn diagram that best illustrates the relationship between the following classes:

Mothers, Lawyers, Fathers

Ans



Question ID : 65497849

Status : Answered

Chosen Option : 4

Q.31 Select the alternative that arranges the following words in a logical and meaningful order.

1.Prime Minister

2.Chief Minister

3.President

4.Collector

5.Governor

6.Sarpanch

Ans

- ✗ 1. 1, 3, 5, 2, 4, 6
- ✓ 2. 3, 1, 5, 2, 4, 6
- ✗ 3. 1, 3, 2, 5, 4, 6
- ✗ 4. 3, 1, 2, 5, 4, 6

Question ID : 6549789

Status : Answered

Chosen Option : 2

Q.32 Which letter-cluster from the options will replace the question mark (?) to complete the given series?

CALCULATION, OLCUQATIA, ICUVATL, ?, AFU

- Ans  1. TUAAC
 2. TAUAC
 3. TUACA
 4. TAAUC

Question ID : 6549785
Status : Not Answered
Chosen Option : --

Q.33 If 'MEDIA' is coded as '37' and 'DREAM' is coded as '46' then how will 'ENTER' be coded as?

- Ans  1. 67
 2. 76
 3. 57
 4. 75

Question ID : 65497821
Status : Answered
Chosen Option : 1

Q.34 Select the option in which the numbers are related in the same way as are the numbers in the given set.

(4, 44, 88)

- Ans  1. (7, 63, 84)
 2. (6, 66, 132)
 3. (3, 33, 72)
 4. (5, 60, 120)

Question ID : 65497838
Status : Answered
Chosen Option : 2

Q.35 Select the number pair in which the two numbers are related in the same way as are the two numbers of the following number pair.

18 : 196

- Ans  1. 13 : 82
 2. 12 : 65
 3. 17 : 169
 4. 14 : 103

Question ID : 65497835
Status : Not Answered
Chosen Option : --

Q.36 Choose the pair that best represents a similar relationship to the one expressed in the original pair of words.

Japan : Yen

- Ans**
- ☒ 1. Tajikistan : Baht
 - ☒ 2. Euro : Belgium
 - ☒ 3. Vietnam : Dong
 - ☒ 4. Bulgaria : Sofia

Question ID : 65497813
Status : Answered
Chosen Option : 2

Q.37 Which letter from the options will replace the question mark (?) in the following series?

G, K, Q, U, A, E, ?

- Ans**
- ☒ 1. J
 - ☒ 2. L
 - ☒ 3. M
 - ☒ 4. K

Question ID : 6549781
Status : Answered
Chosen Option : 4

Q.38 The captain of a football team of 11 members is 36 years old and the goalkeeper is 3 years older than him. If the ages of these two are excluded, the average age of the remaining players is one year less than the average age of the whole team. What is the average age of the team?

- Ans**
- ☒ 1. 39 years
 - ☒ 2. 30 years
 - ☒ 3. 36 years
 - ☒ 4. 33 years

Question ID : 65497842
Status : Marked For Review
Chosen Option : 1

Q.39 Select the option in which the given figure (x) is embedded (Rotation is not allowed).



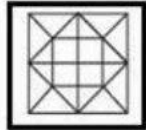
x

Ans

☒ 1.



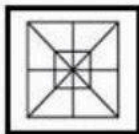
☒ 2.



☒ 3.



☒ 4.



Question ID : 65497846

Status : Answered

Chosen Option : 3

Q.40 In a code language, 'BLAME' is written as 'FGJQR' and 'SMOKE' is written as 'JPRTX'. How will 'FRAME' be written as in that language?

Ans ☒ 1. FJKRW

☒ 2. FIKQW

☒ 3. FKIWQ

☒ 4. FKJWR

Question ID : 65497820

Status : Answered

Chosen Option : 4

Q.41 Select the number that is related to the third number in the same way as the second number is related to the first number.

2 : 16 :: 4 : ?

Ans ☒ 1. 124

☒ 2. 126

☒ 3. 128

☒ 4. 122

Question ID : 65497834

Status : Marked For Review

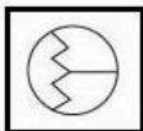
Chosen Option : 3

Q.42 Select the option in which the given figure (x) is embedded (Rotation is not allowed).

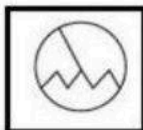


Ans

☒ 1.



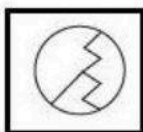
☒ 2.



☒ 3.



☒ 4.



Question ID : 65497845

Status : Answered

Chosen Option : 3

Q.43 Choose the pair that best represents a similar relationship to the one expressed in the original pair of words.

Wind speed : Anemometer

Ans

☒ 1.

Pressure of gas : Manometer

☒ 2.

Current : Odometer

☒ 3.

Caliper : Distance

☒ 4.

Hygrometer : Humidity

Question ID : 65497815

Status : Answered

Chosen Option : 1

Q.44 Two statements are given followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

- All cricketers are singers.
- Some lawyers are singers.

Conclusions:

- (I) All the cricketers are lawyers.
(II) Some lawyers are cricketers.

- Ans**
- ☒ 1. Either conclusion I or conclusion II follows
 - ☒ 2. Only conclusion II follows
 - ☒ 3. Neither conclusion I nor conclusion II follows
 - ☒ 4. Only conclusion I follows

Question ID : 65497823
Status : Answered
Chosen Option : 2

Q.45 Kishore walked 2 km towards the north to reach a library. Then he walked 8 km in the east direction to reach a playground. After that, he turned to the north and walked 3 km. Again, he turned towards the east and walked 2 km to reach a theatre. Find the total distance travelled by Kishore.

- Ans**
- ☒ 1. 15 km
 - ☒ 2. 10 km
 - ☒ 3. 13 km
 - ☒ 4. 11 km

Question ID : 65497825
Status : Answered
Chosen Option : 1

Q.46 In a code language, 'PRAYER' is written as 'UOFVJO'. How will 'SOLVENT' be written as in that language?

- Ans**
- ☒ 1. XLQSILY
 - ☒ 2. XMQSKX
 - ☒ 3. XLPSJKY
 - ☒ 4. XLQSJKY

Question ID : 65497819
Status : Answered
Chosen Option : 4

Q.47 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.

LOCKER : RIXPKL :: MAGNET : _____

- Ans**
- ☒ 1. SUTMKN
 - ☒ 2. SUMSKN
 - ☒ 3. SUSMKN
 - ☒ 4. STUMKN

Question ID : 65497818
Status : Answered
Chosen Option : 1

Q.48 'Library' is related to 'Read' and 'Restaurant' is related to 'Eat' in the same way as 'Airport' is related to _____.

- Ans
- ☐ 1. Socialise
 - ☐ 2. Relax
 - ☐ 3. Exercise
 - ☒ 4. Travel

Question ID : 65497811
Status : Answered
Chosen Option : 4

Q.49 Seven people S, T, U, V, X, Y and Z are sitting around a round table for group discussion. Y is sitting third to the right of Z and between S and X. Z is sitting second to the right of U. V is sitting third to the left of X and third to the right of Y. Who is sitting right of S?

- Ans
- ☐ 1. X
 - ☐ 2. T
 - ☐ 3. V
 - ☒ 4. U

Question ID : 65497830
Status : Answered
Chosen Option : 4

Q.50 Choose the correct option for the bracketed numbers in the given series.

4, 9, 6, 11, (9), 13, 10, (14), 12, 17.

- Ans
- ☐ 1. The first bracketed number is incorrect and the second bracketed number is correct.
 - ☒ 2. Both the bracketed numbers are incorrect.
 - ☐ 3. Both the bracketed numbers are correct.
 - ☐ 4. The first bracketed number is correct and the second bracketed number is incorrect.

Question ID : 65497833
Status : Not Answered
Chosen Option : --

Section : General Awareness

Q.1 Who among the following had built the Allahabad Fort?

- Ans
- ☐ 1. Shah Jahan
 - ☐ 2. Humayun
 - ☒ 3. Akbar
 - ☐ 4. Babur

Question ID : 65497889
Status : Marked For Review
Chosen Option : 3

Q.2 What is the full form of DRDO?

- Ans
- ☐ 1. Drone Research and Defense Organisation
 - ☒ 2. Defense Research and Development Organisation
 - ☐ 3. Drone Recovery and Development Organisation
 - ☐ 4. Drone Research and Development Organisation

Question ID : 65497876
Status : Answered
Chosen Option : 2

Q.3 A board inserted inside a computer that provides a physical connection to a network is called:

- Ans
- ☐ 1. RAM
 - ☐ 2. B:T
 - ☐ 3. BUG
 - ☒ 4. NIC

Question ID : 65497852
Status : Answered
Chosen Option : 1

Q.4 Who was the first Finance Minister of India after independence?

- Ans
- ☐ 1. C Rajgopalachari
 - ☒ 2. R K Shanmukham Chetty
 - ☐ 3. Sardar Baldev Singh
 - ☐ 4. Dr. B R Ambedkar

Question ID : 65497890
Status : Answered
Chosen Option : 3

Q.5 The outermost part of the Sun's atmosphere is called _____, which can be seen during a total solar eclipse.

- Ans
- ☐ 1. photosphere
 - ☒ 2. corona
 - ☐ 3. chromosphere
 - ☐ 4. transition region

Question ID : 65497867
Status : Answered
Chosen Option : 2

Q.6 Which of the following states has won the 'World Habitat Award' for its ambitious initiative Jaga Mission in December 2019?

- Ans
- ☒ 1. Odisha
 - ☐ 2. Gujarat
 - ☐ 3. Assam
 - ☐ 4. Haryana

Question ID : 65497885
Status : Answered
Chosen Option : 1

Q.7 The cultivation and harvesting of grapes is called:

- Ans
- ☒ 1. aquaculture
 - ☒ 2. viticulture
 - ☒ 3. silviculture
 - ☒ 4. floriculture

Question ID : 65497881
Status : Answered
Chosen Option : 3

Q.8 Glaucoma affects which part of the human body?

- Ans
- ☒ 1. Heart
 - ☒ 2. Ears
 - ☒ 3. Nose
 - ☒ 4. Eyes

Question ID : 65497869
Status : Answered
Chosen Option : 4

Q.9 A/An _____ is a body of water separated from larger bodies of water by a natural barrier.

- Ans
- ☒ 1. iceberg
 - ☒ 2. moraine
 - ☒ 3. humus
 - ☒ 4. lagoon

Question ID : 65497884
Status : Answered
Chosen Option : 1

Q.10 Which of the following planet is also known as 'red planet' ?

- Ans
- ☒ 1. Jupiter
 - ☒ 2. Mars
 - ☒ 3. Neptune
 - ☒ 4. Pluto

Question ID : 65497868
Status : Answered
Chosen Option : 2

Q.11 Who has been appointed as Deputy Governor of Reserve Bank of India in January 2020?

- Ans
- ☒ 1. Michael Debabrata Patra
 - ☒ 2. N S Vishwanathan
 - ☒ 3. Shaktikant Das
 - ☒ 4. M K Jain

Question ID : 65497857
Status : Marked For Review
Chosen Option : 1

Q.12 Which one of the following plants grows naturally in a saline environment?

- Ans
- ☒ 1. Dodder
 - ☒ 2. Cuscuta
 - ☒ 3. Halophyte
 - ☒ 4. Xerophytes

Question ID : 65497874
Status : Not Answered
Chosen Option : --

Q.13 Which of the following is the largest living bird?

- Ans
- ☒ 1. Owl
 - ☒ 2. Ostrich
 - ☒ 3. Emu
 - ☒ 4. Kori Bustard

Question ID : 65497862
Status : Answered
Chosen Option : 2

Q.14 Who has taken over as the National President of Bhartiya Janata Party (BJP) on 20th January 2020?

- Ans
- ☒ 1. Nripendra Misra
 - ☒ 2. JP Nadda
 - ☒ 3. Ram Vilas Paswan
 - ☒ 4. Amit Shah

Question ID : 65497854
Status : Answered
Chosen Option : 2

Q.15 Where was the first Sikh Guru, Guru Nanak Dev, born in 1469?

- Ans
- ☒ 1. Jalandhar
 - ☒ 2. Talwandi
 - ☒ 3. Amritsar
 - ☒ 4. Beas

Question ID : 65497887
Status : Answered
Chosen Option : 2

Q.16 Who among the following is known as the 'nightingale of India'?

- Ans
- ☒ 1. Indira Gandhi
 - ☒ 2. Nirja Mishra
 - ☒ 3. Mother Teresa
 - ☒ 4. Sarojini Naidu

Question ID : 65497888
Status : Answered
Chosen Option : 4

Q.17 Which is the first planet discovered with the aid of a telescope?

- Ans
- ☒ 1. Jupiter
 - ☒ 2. Neptune
 - ☒ 3. Uranus
 - ☒ 4. Mars

Question ID : 65497870
Status : Answered
Chosen Option : 1

Q.18 Which of the following companies has soft-launched JioMart, their e-commerce venture?

- Ans
- ☒ 1. Infosys Limited
 - ☒ 2. Tata Group
 - ☒ 3. Reliance Industries Limited
 - ☒ 4. Hindustan Unilever Limited

Question ID : 65497860
Status : Answered
Chosen Option : 3

Q.19 In which city the 'Pariksha Pe Churha 2020' program was held on the 20th January?

- Ans
- ☒ 1. Lucknow
 - ☒ 2. Gurugram
 - ☒ 3. Patna
 - ☒ 4. New Delhi

Question ID : 65497853
Status : Answered
Chosen Option : 4

Q.20 The GSAT-30 is a _____ satellite.

- Ans
- ☒ 1. remote sensing
 - ☒ 2. polar
 - ☒ 3. drone
 - ☒ 4. communication

Question ID : 65497872
Status : Answered
Chosen Option : 4

Q.21 Which Article of the Indian Constitution states that no person shall be a citizen of India if he has voluntarily acquired the citizenship of any foreign State?

- Ans
- ☒ 1. Article 17
 - ☒ 2. Article 19
 - ☒ 3. Article 23
 - ☒ 4. Article 9

Question ID : 65497895
Status : Answered
Chosen Option : 2

Q.22 Which of the following cities hosted the 9th International Children Film Festival in January 2020?

- Ans
- ☒ 1. Mumbai
 - ☒ 2. Kolkata
 - ☒ 3. New Delhi
 - ☒ 4. Hyderabad

Question ID : 65497855
Status : Answered
Chosen Option : 2

Q.23 The executive power of the Indian Union and supreme command of defence forces of the Indian Union is vested in the:

- Ans
- ☒ 1. Vice President
 - ☒ 2. President
 - ☒ 3. Prime minister
 - ☒ 4. Attorney general

Question ID : 65497896
Status : Answered
Chosen Option : 2

Q.24 _____ is defined as a measure, in monetary terms, of the volume of all goods and services produced within the boundaries of the State during a given period of time.

- Ans
- ☒ 1. GDP
 - ☒ 2. GSDP
 - ☒ 3. GVA
 - ☒ 4. NSDP

Question ID : 65497861
Status : Answered
Chosen Option : 1

Q.25 Oneirology is the study of:

- Ans
- ☒ 1. dreams
 - ☒ 2. animals
 - ☒ 3. flowers
 - ☒ 4. insects

Question ID : 65497879
Status : Answered
Chosen Option : 4

Q.26 Who has been appointed as the new Director General of CRPF in January 2020?

- Ans
- ☒ 1. Suman Billa
 - ☒ 2. A P Maheshwari
 - ☒ 3. M K Jain
 - ☒ 4. R R Bhatnagar

Question ID : 65497858
Status : Answered
Chosen Option : 2

Q.27 The blood vessels that carry the oxygen-poor blood back to the heart is known as:

- Ans
- ☒ 1. arteries
 - ☒ 2. nodes
 - ☒ 3. lymph vessels
 - ☒ 4. veins

Question ID : 65497875
Status : Answered
Chosen Option : 4

Q.28 In which of the following states will ISRO set up a second launch port for small satellite launch vehicles?

- Ans
- ☒ 1. Tamil Nadu
 - ☒ 2. Rajasthan
 - ☒ 3. West Bengal
 - ☒ 4. Gujarat

Question ID : 65497878
Status : Answered
Chosen Option : 1

Q.29 In 1978, the Constitution of which of the following SAARC countries was amended and the system of Executive Presidency was introduced?

- Ans
- ☒ 1. Pakistan
 - ☒ 2. Sri Lanka
 - ☒ 3. Bhutan
 - ☒ 4. Nepal

Question ID : 65497898
Status : Not Answered
Chosen Option : --

Q.30 Which of the following is a soy-based food?

- Ans
- ☒ 1. Pears
 - ☒ 2. Coffee
 - ☒ 3. Tofu
 - ☒ 4. Broccoli

Question ID : 65497863
Status : Answered
Chosen Option : 2

Q.31 Which of the following nations has won the 2020 Diplomat Cup Cricket Championship by defeating Pakistan in Dubai?

- Ans
- ☒ 1. Australia
 - ☒ 2. India
 - ☒ 3. South Africa
 - ☒ 4. USA

Question ID : 654978100
Status : Answered
Chosen Option : 2

Q.32 Which one of the following parts of the brain controls emotional reactions in our body?

- Ans
- ☒ 1. Cerebellum
 - ☒ 2. Brain stem
 - ☒ 3. Hypothalamus
 - ☒ 4. Cerebrum

Question ID : 65497877
Status : Answered
Chosen Option : 1

Q.33 Which one of the following units is used by astronomers for measuring larger stellar and extragalactic distances?

- Ans
- ☒ 1. Fathom
 - ☒ 2. Ampere
 - ☒ 3. Knot
 - ☒ 4. Light year

Question ID : 65497871
Status : Answered
Chosen Option : 4

Q.34 In a significant ruling in January 2020, the Supreme Court stated that access to the Internet is a fundamental right under _____ of the Indian Constitution.

- Ans
- ☒ 1. Article 19
 - ☒ 2. Article 17
 - ☒ 3. Article 21
 - ☒ 4. Article 34

Question ID : 65497897
Status : Answered
Chosen Option : 1

Q.35 Where is India's largest solar power station located?

- Ans
- ☒ 1. Maharashtra
 - ☒ 2. Karnataka
 - ☒ 3. Telangana
 - ☒ 4. Tamil Nadu

Question ID : 65497882
Status : Answered
Chosen Option : 1

Q.36 As of January 2020, Gujarat has _____ Legislative Assembly seats.

- Ans
- ☒ 1. 182
 - ☒ 2. 123
 - ☒ 3. 117
 - ☒ 4. 134

Question ID : 65497894
Status : Not Answered
Chosen Option : --

Q.37 The modern non-stick utensils are made up of:

- Ans
- ☒ 1. iron
 - ☒ 2. teflon
 - ☒ 3. zinc
 - ☒ 4. copper

Question ID : 65497866
Status : Not Answered
Chosen Option : --

Q.38 In which of the following cities will the world's first CNG Port terminal be developed?

- Ans
- ☒ 1. Bhavnagar
 - ☒ 2. Kandla
 - ☒ 3. Kochi
 - ☒ 4. Vishakhapatnam

Question ID : 65497883
Status : Answered
Chosen Option : 1

Q.39 The Dharoi Dam is built over which of the following rivers?

- Ans
- ☒ 1. Sabarmati
 - ☒ 2. Godavari
 - ☒ 3. Brahmaputra
 - ☒ 4. Ganga

Question ID : 65497880
Status : Not Answered
Chosen Option : --

Q.40 'World Environment Day' is celebrated every year on:

- Ans
- ☒ 1. 5 June
 - ☒ 2. 15 February
 - ☒ 3. 8 August
 - ☒ 4. 5 July

Question ID : 65497856
Status : Answered
Chosen Option : 1

Q.41 What is the full form of SAG in the context of Games?

- Ans
- ☒ 1. South Afro- Asian Games
 - ☒ 2. South Asian Games
 - ☒ 3. South African Games
 - ☒ 4. South American Games

Question ID : 65497899
Status : Not Answered
Chosen Option : --

Q.42 Which one of the following diseases is caused by the excess of iron in the human body?

- Ans
- ☐ 1. Thyroid
 - ☒ 2. Haemochromatosis
 - ☐ 3. Beri-beri
 - ☐ 4. Anaemia

Question ID : 65497873
Status : Answered
Chosen Option : 4

Q.43 Identify the Indian player who is also known as the 'Wizard of Hockey'.

- Ans
- ☐ 1. Udham Singh
 - ☒ 2. Major Dhyan Chand
 - ☐ 3. Roop Singh
 - ☐ 4. Dhanraj Pillay

Question ID : 65497893
Status : Not Answered
Chosen Option : --

Q.44 A/An _____ is a sensory muscular organ in human body.

- Ans
- ☐ 1. nose
 - ☐ 2. ear
 - ☐ 3. eye
 - ☒ 4. tongue

Question ID : 65497864
Status : Not Answered
Chosen Option : --

Q.45 What is the full form of BCC used in email?

- Ans
- ☐ 1. Blank Carbon Copy
 - ☐ 2. Blind Computer Copy
 - ☒ 3. Blind Carbon Copy
 - ☐ 4. Black Carbon Copy

Question ID : 65497851
Status : Not Answered
Chosen Option : --

Q.46 Who among the following has won the 26th Annual Crystal Award in December 2019?

- Ans
- ☐ 1. Tapsi Pannu
 - ☒ 2. Deepika Padukone
 - ☐ 3. Alia Bhatt
 - ☐ 4. Tabu

Question ID : 65497892
Status : Not Answered
Chosen Option : --

Q.47 Which of the following is an excellent source of iodine?

- Ans
- ☒ 1. Fruits
 - ☒ 2. Vegetables
 - ☒ 3. Seaweed
 - ☒ 4. Millet

Question ID : 65497865
Status : Not Answered
Chosen Option : --

Q.48 The Sikh Empire was founded by which of the following Indian rulers?

- Ans
- ☒ 1. Kharak Singh
 - ☒ 2. Dalip Singh
 - ☒ 3. Maharaja Ranjit Singh
 - ☒ 4. Sher Singh

Question ID : 65497891
Status : Not Answered
Chosen Option : --

Q.49 Who among the following is the Union Minister of Micro, Small and Medium Enterprises as of February 2020?

- Ans
- ☒ 1. Narender Singh Tomar
 - ☒ 2. Nitin Gadkari
 - ☒ 3. Dharmendra Pradhan
 - ☒ 4. Giriraj Singh

Question ID : 65497859
Status : Not Answered
Chosen Option : --

Q.50 In which of the following states was the fourth edition of 'Buxa Bird Festival' organised in January 2020?

- Ans
- ☒ 1. West Bengal
 - ☒ 2. Andhra Pradesh
 - ☒ 3. Bihar
 - ☒ 4. Arunachal Pradesh

Question ID : 65497886
Status : Not Answered
Chosen Option : --

Section : General Engineering Civil and Structural

Q.1 Two cumec of water is pumped into a farm distribution system. Out of this, 0.8 cumec is delivered to a turn-out. What is the conveyance efficiency?

- Ans
- ☒ 1. 60%
 - ☒ 2. 50%
 - ☒ 3. 70%
 - ☒ 4. 40%

Question ID : 654978156
Status : Answered
Chosen Option : 4

Q.2 What is the standard size of wood specimen for testing durability?

- Ans
- ☐ 1. $500 \times 50 \times 50$ mm
 - ☒ 2. $600 \times 50 \times 50$ mm
 - ☐ 3. $400 \times 40 \times 450$ mm
 - ☐ 4. $600 \times 60 \times 60$ mm

Question ID : 654978104

Status : Not Attempted and
Marked For Review

Chosen Option : --

Q.3 In which of the following road construction, the finished surface layer of the pavement is given a cross slope of 1 in 45?

- Ans
- ☐ 1. Macadam construction
 - ☒ 2. Telford construction
 - ☐ 3. Tresaguet construction
 - ☐ 4. Metcalf construction

Question ID : 654978161

Status : Marked For Review

Chosen Option : 1

Q.4 'The change in the slope between two points on a straight member under flexure is equal to the area of (M/EI) diagram between those two points' is a theorem of which of the following methods?, where M = moment, E = Young's modulus and I = moment of inertia

- Ans
- ☐ 1. Castigliano's method
 - ☐ 2. Strain energy method
 - ☐ 3. Unit load method
 - ☒ 4. Moment area method

Question ID : 654978179

Status : Answered

Chosen Option : 4

Q.5 The Size of a standard modular building brick without mortar as per IS code 1077-1992 is:

- Ans
- ☐ 1. $20 \times 10 \times 10$ cm
 - ☒ 2. $19 \times 9 \times 9$ cm
 - ☐ 3. $22 \times 10 \times 9$ cm
 - ☐ 4. $21 \times 9 \times 4$ cm

Question ID : 654978102

Status : Marked For Review

Chosen Option : 1

Q.6 Which of the following tests is NOT used to test aggregate for its abrasion resistance in concrete works?

- Ans
- ☐ 1. Dorry abrasion test
 - ☐ 2. Deval attrition test
 - ☒ 3. Soundness test
 - ☐ 4. Los Angeles test

Question ID : 654978184

Status : Answered

Chosen Option : 3

Q.7 Which of the following is NOT used as a coagulant?

- Ans
- ☐ 1. Copperas
 - ☒ 2. Sodium carbonate
 - ☐ 3. Alum
 - ☐ 4. Ferric chloride

Question ID : 654978172

Status : Marked For Review

Chosen Option : 2

Q.8 The capital sum required to be invested in order to receive a net income as an annuity of ₹1 (Rupee one) at certain rate of interest is called:

- Ans
- ☐ 1. Capitalised value
 - ☐ 2. Sinking fund
 - ☒ 3. Year's purchase
 - ☐ 4. Asset value

Question ID : 654978121

Status : Marked For Review

Chosen Option : 1

Q.9 What is the disadvantage of combined system of sewerage?

- Ans
- ☐ 1. Less chances of choking of sewers
 - ☐ 2. It requires only one set of sewers
 - ☒ 3. Cost of construction is high
 - ☐ 4. Lesser strength of sewage due to dilution

Question ID : 654978170

Status : Marked For Review

Chosen Option : 3

Q.10 If a line AB has a whole circle bearing (WCB) between 90 degree and 180 degree, then the correct expression used to calculate reduced bearing (RB) is:

- Ans
- ☒ 1. $RB = WCB$
 - ☒ 2. $RB = WCB + 90^\circ$
 - ☒ 3. $RB = 360^\circ - WCB$
 - ☒ 4. $RB = 180^\circ - WCB$

Question ID : 654978129

Status : Answered

Chosen Option : 4

Q.11 Which of the following oxidising chemical is generally used for disinfection of drinking water in the water treatment plant?

- Ans
- ☒ 1. Alkalis and acids
 - ☒ 2. Copper ion
 - ☒ 3. Glutaraldehyde
 - ☒ 4. Chlorine

Question ID : 654978173

Status : Answered

Chosen Option : 4

Q.12 The processes of adding chemicals to induce aggregation and settling of finely divided suspended matter, colloidal substances etc. in water treatment plants is called:

- Ans
- ☒ 1. filtration
 - ☒ 2. clarification
 - ☒ 3. aeration
 - ☒ 4. plain sedimentation

Question ID : 654978171

Status : Answered

Chosen Option : 4

Q.13 Which of the following methods is NOT in use for earthwork estimation?

- Ans
- ☒ 1. Trapezoidal method
 - ☒ 2. Prismoidal method
 - ☒ 3. Mid-section method
 - ☒ 4. Crossing method

Question ID : 654978120

Status : Answered

Chosen Option : 4

Q.14 What should be the side slope (H : V) and hydraulic mean radius (R) for the most efficient trapezoidal channel having depth of flow equal to y?

Ans

☒ 1. $H:V = 1 : 1$ and $R = \frac{y}{2}$

☒ 2. $H:V = \frac{1}{2} : 1$ and $R = \frac{y}{2}$

☒ 3. $H:V = \frac{1}{\sqrt{2}} : 1$ and $R = y$

☒ 4. $H:V = \frac{1}{\sqrt{3}} : 1$ and $R = \frac{y}{2}$

Question ID : 654978160

Status : Answered

Chosen Option : 4

Q.15 Which of the following method is NOT used for estimating brick work of a building?

Ans

☒ 1. Crossing method

☒ 2. Mid-section method

☒ 3. Long and short wall method

☒ 4. Centre line method

Question ID : 654978115

Status : Marked For Review

Chosen Option : 2

Q.16 Heavy foundation stones are not at all necessary to be placed at the bottom layer of road with sub grade cross slope of 1 in 36. Which of the following methods of construction used this concept?

Ans

☒ 1. Telford construction

☒ 2. Tresaguet construction

☒ 3. Macadam construction

☒ 4. Metcalf construction

Question ID : 654978165

Status : Not Answered

Chosen Option : --

Q.17 As per IS 456-2000, what is the maximum shear stress for M30 grade of concrete?

Ans

☒ 1. 3.10 MPa

☒ 2. 3.50 MPa

☒ 3. 4.00 MPa

☒ 4. 2.80 MPa

Question ID : 654978192

Status : Marked For Review

Chosen Option : 2

Q.18 A state highway road is to be constructed with bitumen concrete pavement of width 7 m wide and a camber of 1 in 50 is provided. What is the rise of crown with respect to edges?

- Ans
- ☐ 1. 0.05 m
 - ☐ 2. 0.06 m
 - ☐ 3. 0.08 m
 - ☒ 4. 0.07 m

Question ID : 654978166

Status : Not Attempted and
Marked For Review

Chosen Option : --

Q.19 Select the INCORRECT statement from the following with regard to weigh batching of concrete.

- Ans
- ☐ 1. Weigh batching facilitates accuracy, flexibility and simplicity
 - ☒ 2. Gauge boxes are used to weigh the fine and coarse aggregates
 - ☐ 3. On large work sites, the weigh bucket type of weighing equipment are used.
 - ☐ 4. Weigh batching is the correct method of measuring the materials.

Question ID : 654978188

Status : Marked For Review

Chosen Option : 3

Q.20 The ratio of volume of water present in a given soil mass to the total volume of voids is called:

- Ans
- ☐ 1. density of solids
 - ☒ 2. degree of saturation
 - ☐ 3. water content
 - ☐ 4. bulk unit weight

Question ID : 654978135

Status : Answered

Chosen Option : 2

Q.21 Stress distribution in soil, the approximate method in which the vertical stress at any point to any loaded area is calculated by:

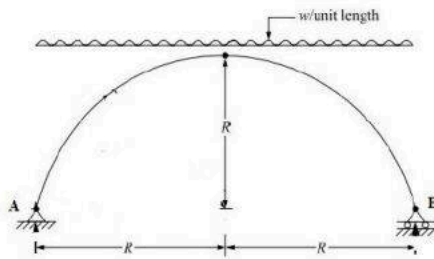
- Ans
- ☐ 1. Newmark's influence chart
 - ☐ 2. Boussinesq's method
 - ☒ 3. Equivalent point load method
 - ☐ 4. Westergaard's method

Question ID : 654978140

Status : Marked For Review

Chosen Option : 4

Q.22 Calculate the horizontal support reactions at A and B of a three hinged arch with a radius R subjected to a uniformly distributed load as shown in the figure.



Ans

- ☒ 1. $\frac{wR}{2}$
- ☐ 2. wR
- ☐ 3. $\frac{wR^2}{8}$
- ☐ 4. $\frac{wR^2}{2}$

Question ID : 654978181

Status : Answered

Chosen Option : 1

Q.23 The process of turning the telescope in the theodolite in vertical plane through 180° about the trunnion axis, is called:

Ans

- ☐ 1. swinging
- ☐ 2. centring
- ☒ 3. transiting
- ☐ 4. levelling

Question ID : 654978128

Status : Answered

Chosen Option : 3

Q.24 Bernoulli's equation is invalid for:

Ans

- ☐ 1. incompressible flow
- ☐ 2. steady flow
- ☒ 3. viscous fluid
- ☐ 4. irrotational flow

Question ID : 654978146

Status : Answered

Chosen Option : 3

Q.25 What should be the upper limit of water absorption of a burnt clay building brick, up to class 12.5 as per IS 1077-1992, when immersed in cold water for a duration of 24 hours?

- Ans
- ☐ 1. 20% of its dry volume
 - ☐ 2. 30% of its dry volume
 - ☒ 3. 20% of its dry weight
 - ☐ 4. 30% of its dry weight

Question ID : 654978107

Status : Marked For Review

Chosen Option : 3

Q.26 According to IS 456-2000, the basic value of span to effective depth ratio for an RCC cantilever beam for span up to 10 m is:

- Ans
- ☐ 1. 26
 - ☒ 2. 7
 - ☐ 3. 15
 - ☐ 4. 20

Question ID : 654978190

Status : Answered

Chosen Option : 2

Q.27 Calculate the cost of cement required to make a concrete of dry volume 15.4 m^3 with a mix proportion 1 : 2 : 4. Take rate of cement per cubic metre (bulk volume) as ₹500.

- Ans
- ☐ 1. ₹1,200.00
 - ☐ 2. ₹1,300.00
 - ☐ 3. ₹1,000.00
 - ☒ 4. ₹1,100.00

Question ID : 654978119

Status : Answered

Chosen Option : 4

Q.28 Permanent hardness of water is removed by all the following methods, EXCEPT the:

- Ans
- ☐ 1. zeolite process
 - ☐ 2. lime-soda process
 - ☐ 3. deionisation process
 - ☒ 4. boiling process

Question ID : 654978174

Status : Answered

Chosen Option : 4

Q.29 Which of the following methods aims for a comprehensive and rational solution to the design of reinforced cement concrete structure, by considering safety at ultimate loads and serviceability at working loads?

- Ans ☒ 1. Limit state method
☒ 2. Working stress method
☒ 3. Direct design method
☒ 4. Ultimate load method

Question ID : 654978189

Status : Answered

Chosen Option : 1

Q.30 When levelling is done at a busy construction site, what does the hand signal 'Movement of right arm by 30°' given by the instrument man (as shown in figure) to the man holding the staff signify?



- Ans ☒ 1. Move top of staff to my right
☒ 2. Move to my right
☒ 3. Move top of staff to my left
☒ 4. Move to my left

Question ID : 654978132

Status : Marked For Review

Chosen Option : 2

Q.31 What is the length of Surveyor's chain?

- Ans ☒ 1. 33 feet
☒ 2. 133 feet
☒ 3. 66 feet
☒ 4. 100 feet

Question ID : 654978126

Status : Marked For Review

Chosen Option : 4

Q.32 Select the INCORRECT statement in the case of effects of natural puzzolanas.

- Ans ☒ 1.
The heat of hydration of puzzolana is higher than that of low heat cement.
☒ 2.
At early ages, the replacement of cement by puzzolana usually results decrease in the compressive strength.
☒ 3.
Addition of puzzolana in cement increases workability of concrete for the same water-cement ratio.
☒ 4.
Shrinkage and moisture movement on addition of puzzolana in cement is similar to Portland cement.

Question ID : 654978112

Status : Marked For Review

Chosen Option : 4

Q.33 In a flow field, a function such that its partial derivatives with respect to any direction gives velocity components at right angles (in the counter clock wise direction) to that direction is called:

- Ans
- ☒ 1. velocity potential
 - ☒ 2. local acceleration
 - ☒ 3. stream function
 - ☒ 4. convective acceleration

Question ID : 654978145

Status : Answered

Chosen Option : 3

Q.34 What is the range of specific gravity of granite rock aggregates?

- Ans
- ☒ 1. 2.0 - 2.5 gm/cc
 - ☒ 2. 1.0 - 1.6 gm/cc
 - ☒ 3. 1.6 - 2.0 gm/cc
 - ☒ 4. 2.6 - 2.9 gm/cc

Question ID : 654978105

Status : Marked For Review

Chosen Option : 4

Q.35 Which of the following methods is NOT used to calculate depreciation?

- Ans
- ☒ 1. Sinking fund method
 - ☒ 2. Quantity survey method
 - ☒ 3. Straight line method
 - ☒ 4. Rental method

Question ID : 654978122

Status : Marked For Review

Chosen Option : 2

Q.36 What is the delta (Δ) for the crop when its duty is 864 hectares/m³ and the base period is 120 days.

- Ans
- ☒ 1. 180 cm
 - ☒ 2. 200 cm
 - ☒ 3. 100 cm
 - ☒ 4. 120 cm

Question ID : 654978155

Status : Answered

Chosen Option : 4

Q.37 Which of the following methods is used to assess rateable value of the property usually applicable for cinemas, theatres and race courses?

- Ans
- ☐ 1. Comparison method
 - ☐ 2. Structural method
 - ☒ 3. Profit based method
 - ☐ 4. Rental method

Question ID : 654978124
Status : Not Answered
Chosen Option : --

Q.38 As per IRC, what shall be the maximum length of truck and trailer combination of road vehicle?

- Ans
- ☐ 1. 12 m
 - ☐ 2. 16 m
 - ☒ 3. 18 m
 - ☐ 4. 11 m

Question ID : 654978164
Status : Not Answered
Chosen Option : --

Q.39 The three-moment equation was originally developed by:

- Ans
- ☒ 1. Clapeyron
 - ☐ 2. Euler
 - ☐ 3. Mohr
 - ☐ 4. Hardy cross

Question ID : 654978178
Status : Marked For Review
Chosen Option : 4

Q.40 What is the SI unit for dynamic viscosity of fluid?

- Ans
- ☐ 1. Stoke
 - ☐ 2. Dyne
 - ☒ 3. Pascal second
 - ☐ 4. Poise

Question ID : 654978143
Status : Answered
Chosen Option : 4

Q.41 Which of the following geometric shape is NOT used as a transition curve in the alignment of highways?

- Ans
- ☒ 1. Semicircle
 - ☐ 2. Lemniscate
 - ☐ 3. Spiral
 - ☐ 4. Cubic parabola

Question ID : 654978163
Status : Answered
Chosen Option : 1

Q.42 Match List-I with List-II and select the correct answer.

List-I	List-II
A. Critical depth	1. Same specific force
B. Normal depth	2. Same specific energy
C. Alternate depth	3. Minimum specific energy
D. Conjugate depth	4. Uniform flow

- Ans ☒ 1. A-3; B-4; C-2; D-1
☒ 2. A-3; B-4; C-1; D-2
☒ 3. A-2; B-1; C-3; D-4
☒ 4. A-4; B-3; C-2; D-1

Question ID : 654978150
Status : Answered
Chosen Option : 1

Q.43 Which of the following type of lime is manufactured by burning marble, white chalk, calcareous tufa, pure lime stone, sea shell and coral?

- Ans ☒ 1. Hydraulic lime
☒ 2. Fat lime
☒ 3. Hydrated lime
☒ 4. Lump lime

Question ID : 654978110
Status : Answered
Chosen Option : 2

Q.44 What is the minimum grade of concrete in sea-water or which is exposed directly along the sea-coast in the case of plain concrete as per IS code 456-2000?

- Ans ☒ 1. M30
☒ 2. M20
☒ 3. M40
☒ 4. M15

Question ID : 654978106
Status : Answered
Chosen Option : 1

Q.45 The length of a road measured with a 30 metre chain was found to be 300 metres. What is the true length of the road if the chain was 10 cm too long?

- Ans**
- ☒ 1. 301 metres
 - ☐ 2. 298 metres
 - ☐ 3. 299 metres
 - ☐ 4. 302 metres

Question ID : 654978133
Status : Answered
Chosen Option : 1

Q.46 Arrange the following sludge treatment unit operations and processes in a chronological order.

1. Conditioning; 2. Dewatering; 3. Concentration; 4. Digestion; 5. Incineration; 6. Drying

- Ans**
- ☐ 1. 3 -> 2 -> 1 -> 4 -> 5 -> 6
 - ☐ 2. 1 -> 4 -> 3 -> 2 -> 6 -> 5
 - ☒ 3. 3 -> 4 -> 1 -> 2 -> 6 -> 5
 - ☐ 4. 1 -> 2 -> 3 -> 4 -> 5 -> 6

Question ID : 654978176
Status : Answered
Chosen Option : 1

Q.47 In which of the following types of canal alignment are the cross-drainage works minimised?

- Ans**
- ☒ 1. Watershed canal
 - ☐ 2. Valley canal
 - ☐ 3. Straight canal
 - ☐ 4. Contour canal

Question ID : 654978153
Status : Marked For Review
Chosen Option : 1

Q.48 The ability of a material to perform its intended function throughout its designed life without undergoing considerable deterioration is termed as:

- Ans**
- ☐ 1. hardness
 - ☐ 2. strength
 - ☒ 3. durability
 - ☐ 4. elasticity

Question ID : 654978101
Status : Answered
Chosen Option : 3

Q.49 The magnetic bearing of a line is $44^{\circ} 30'$. What is the true bearing if the magnetic declination is $6^{\circ} 30'$ East?

- Ans
- ☒ 1. $97^{\circ} 00'$
 - ☒ 2. $51^{\circ} 00'$
 - ☒ 3. $83^{\circ} 30'$
 - ☒ 4. $38^{\circ} 00'$

Question ID : 654978130

Status : Answered

Chosen Option : 2

Q.50 A reinforced cement concrete beam, having vertical distance between the centre of upper and lower arms of the bent-up bar equal to 20 cm, width 15 cm and a span length of 10 m, is to be casted. What is the length of a single longitudinal reinforcement bar required if the bar is cranked by 45° at both ends? (nearest to decimal value)

- Ans
- ☒ 1. 10.17 m
 - ☒ 2. 9.83 m
 - ☒ 3. 10.11 m
 - ☒ 4. 9.89 m

Question ID : 654978118

Status : Answered

Chosen Option : 1

Q.51 What is the permissible velocity of water in cement concrete lined canal as per IS 10430-2000?

- Ans
- ☒ 1. 2.7 m/s
 - ☒ 2. 1.8 m/s
 - ☒ 3. 3.1 m/s
 - ☒ 4. 1.5 m/s

Question ID : 654978154

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.52 The sections in which tension steel reaches yield strain at loads lower than loads at which concrete reaches strain are called:

- Ans
- ☒ 1. composite sections
 - ☒ 2. under reinforced sections
 - ☒ 3. balanced reinforced sections
 - ☒ 4. over reinforced sections

Question ID : 654978191

Status : Answered

Chosen Option : 2

Q.53 Which of the following is NOT considered in plinth area estimate method?

- Ans
- ☒ 1. Corridor
 - ☒ 2. Courtyard
 - ☒ 3. Verandah
 - ☒ 4. Foyer

Question ID : 654978113

Status : Answered

Chosen Option : 2

Q.54 How many major crossing conflict points exist on a right-angled two-lane road intersection with two-way traffic on both roads?

- Ans
- ☒ 1. 32
 - ☒ 2. 44
 - ☒ 3. 16
 - ☒ 4. 24

Question ID : 654978167

Status : Answered

Chosen Option : 4

Q.55 _____ are longitudinal cracks in wood which is usually normal to the annual rings.

- Ans
- ☒ 1. Shakes
 - ☒ 2. Checks
 - ☒ 3. Knots
 - ☒ 4. Rind gall

Question ID : 654978109

Status : Answered

Chosen Option : 1

Q.56 According to IS 800-2007, what is the maximum effective slenderness ratio for a member carrying compressive loads resulting from dead loads and imposed loads?

- Ans
- ☒ 1. 250
 - ☒ 2. 300
 - ☒ 3. 400
 - ☒ 4. 180

Question ID : 654978199

Status : Marked For Review

Chosen Option : 4

Q.57 The number of hectares irrigable per cumec of the canal capacity at its head is known as:

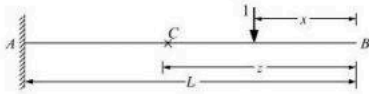
- Ans
- ☒ 1. time factor
 - ☒ 2. nominal duty
 - ☒ 3. capacity factor
 - ☒ 4. full supply coefficient

Question ID : 654978157

Status : Answered

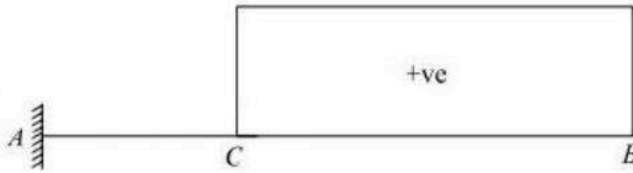
Chosen Option : 2

Q.58 What is the shape or influence line diagram for shear force at fixed end A of the cantilever beam shown in the figure?

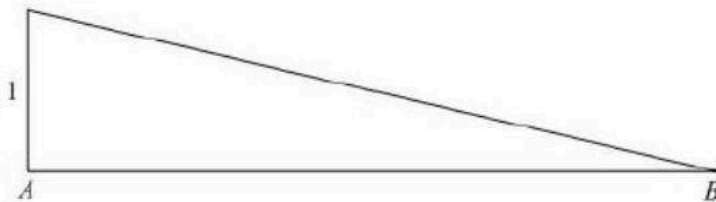


Ans

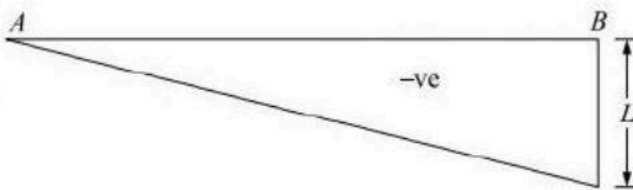
☒ 1.



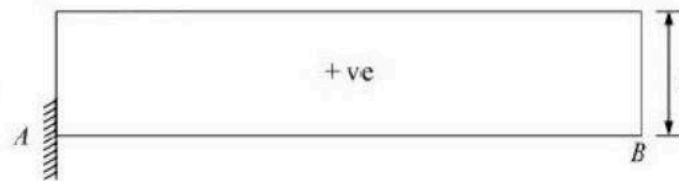
☒ 2.



☒ 3.



☒ 4.



Question ID : 654978180

Status : Marked For Review

Chosen Option : 3

Q.59 Select the INCORRECT statement from the following with regard to grillage footing in steel structure.

Ans

☒ 1. It consists of steel beams encased in concrete

☒ 2.

It is provided when the loads on the column is extremely heavy

☒ 3.

The bearing capacity of soils should be very high to place grillage foundation

☒ 4. The column is placed over base plate

Question ID : 654978198

Status : Answered

Chosen Option : 3

Q.60 Select the INCORRECT statement in the case of triaxial test.

Ans ☒ 1.

The state of stress within the specimen during any stage of test as well as at failure is completely indeterminate

☒ 2. The stress distribution on the failure plane is uniform

☒ 3.

All the three drainage conditions can be performed with complete control under the test

☒ 4.

Precise measurement of pore pressure and volume change during test are possible

Question ID : 654978142

Status : Answered

Chosen Option : 1

Q.61 In the case of lap joints, the minimum lap should NOT be _____ times the thickness of the thinner part joined, or 40 mm, whichever is more.

Ans ☒ 1. more than three

☒ 2. less than four

☒ 3. less than three

☒ 4. less than two

Question ID : 654978197

Status : Marked For Review

Chosen Option : 1

Q.62 Which of the following methods is an initial cost-based valuation?

Ans ☒ 1. Quantity survey method

☒ 2. Straight line method

☒ 3. Centre line method

☒ 4. Cube rate estimate method

Question ID : 654978123

Status : Marked For Review

Chosen Option : 4

Q.63 What is the effective length of a compression member having actual length L , when effectively held in position at both ends and restrained against rotation at one end?

Ans ☒ 1. $1.00 L$

☒ 2. $0.65 L$

☒ 3. $1.50 L$

☒ 4. $0.80 L$

Question ID : 654978200

Status : Answered

Chosen Option : 4

Q.64 The graduations marked in Surveyor's compass vary from ____ to ____.

- Ans
- ☒ 1. 0° ; 270°
 - ☒ 2. 0° ; 90°
 - ☒ 3. 0° ; 360°
 - ☒ 4. 0° ; 180°

Question ID : 654978127

Status : Answered

Chosen Option : 2

Q.65 According to IS 8041-1990, which type of cement is recommended to use when high early strength is required?

- Ans
- ☒ 1. Portland slag cement
 - ☒ 2. Ordinary Portland cement
 - ☒ 3. Sulphate resisting cement
 - ☒ 4. Rapid hardening cement

Question ID : 654978185

Status : Marked For Review

Chosen Option : 4

Q.66 Which of the following is a statically determinate structure?

- Ans
- ☒ 1. Propped cantilever beam
 - ☒ 2. Continuous beam
 - ☒ 3. Three hinged arches
 - ☒ 4. Two hinged arches

Question ID : 654978177

Status : Answered

Chosen Option : 3

Q.67 In paints, _____ is an oil to which the base is mixed.

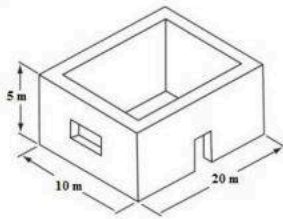
- Ans
- ☒ 1. plasticiser
 - ☒ 2. solvent
 - ☒ 3. vehicle
 - ☒ 4. pigment

Question ID : 654978111

Status : Marked For Review

Chosen Option : 3

Q.68 What is the total area of raking out joint and repointing external walls of the building shown here? Ignore door and window opening.



- Ans
- ☒ 1. 350 m^2
 - ☒ 2. 150 m^2
 - ☒ 3. 300 m^2
 - ☒ 4. 100 m^2

Question ID : 654978116

Status : Not Answered

Chosen Option : --

Q.69 According to IS 10500-2012, the permissible limit of total dissolved solids (TDS) in drinking water in the absence of alternate source is:

- Ans
- ☒ 1. 1500 mg/l
 - ☒ 2. 2000 mg/l
 - ☒ 3. 1000 mg/l
 - ☒ 4. 500 mg/l

Question ID : 654978169

Status : Answered

Chosen Option : 2

Q.70 Which of the following rock is an Igneous rock?

- Ans
- ☒ 1. Limestone
 - ☒ 2. Marble
 - ☒ 3. Rhyolite
 - ☒ 4. Gneiss

Question ID : 654978103

Status : Answered

Chosen Option : 3

Q.71 Consider a semi-circular arch ring having 5 m inner radius, 40 cm thickness and 5 m breadth. What is the quantity of brick work? (nearest to decimal value)

- Ans
- ☒ 1. 36.23 m^3
 - ☒ 2. 30.00 m^3
 - ☒ 3. 32.68 m^3
 - ☒ 4. 38.50 m^3

Question ID : 654978117

Status : Not Answered

Chosen Option : --

Q.72 What is the slump of pumped concrete used in heavily reinforced section if the degree of workability is medium as per IS 456-2000?

- Ans
- ☐ 1. 10-25 mm
 - ☐ 2. 100-150 mm
 - ☐ 3. 25-50 mm
 - ☒ 4. 50-100 mm

Question ID : 654978187

Status : Answered

Chosen Option : 2

Q.73 Which type of buckling of axially loaded compression steel member occurs when the torsional rigidity of the member is appreciably smaller than its bending rigidity?

- Ans
- ☐ 1. Shear buckling
 - ☐ 2. Flexural-shear buckling
 - ☒ 3. Torsional buckling
 - ☐ 4. Flexural buckling

Question ID : 654978196

Status : Answered

Chosen Option : 3

Q.74 In a cross drainage structure, the High Flood Level (HFL) of the drain is sufficiently below the bottom of the canal, so that the drainage water flows freely under gravity, then such structure is known as:

- Ans
- ☐ 1. level crossing
 - ☐ 2. super passage
 - ☐ 3. syphon
 - ☒ 4. aqueduct

Question ID : 654978159

Status : Answered

Chosen Option : 4

Q.75 The unit of coefficient of permeability in SI system is:

- Ans
- ☐ 1. m/s^2
 - ☐ 2. m^3/s
 - ☒ 3. m/s
 - ☐ 4. m^2/s

Question ID : 654978137

Status : Answered

Chosen Option : 3

Q.76 The concept which defines 'the pressure at a certain horizontal level in a static fluid is proportional to the vertical distance to the surface of the fluid' is called:

- Ans
- ☐ 1. D'Alembert's paradox
 - ☐ 2. Magnus effect
 - ☒ 3. Hydrostatic paradox
 - ☐ 4. Archimedes effect

Question ID : 654978147

Status : Marked For Review

Chosen Option : 4

Q.77 According to IS 800-2007, the minimum distance between centre of a fastener shall NOT be less than:

- Ans
- ☐ 1. 32 times the thickness of plate or 300 mm
 - ☒ 2. 2.5 times the nominal diameter of the fastener
 - ☐ 3. 1.5 times the nominal diameter of the fastener
 - ☐ 4. 16 times the thickness of plate or 200 mm

Question ID : 654978195

Status : Not Answered

Chosen Option : --

Q.78 Which of the following is a chemical characteristic of waste water?

- Ans
- ☐ 1. Odour
 - ☐ 2. Colour
 - ☐ 3. Temperature
 - ☒ 4. Biochemical oxygen demand

Question ID : 654978175

Status : Answered

Chosen Option : 4

Q.79 In an RCC stair case design, the tread slabs are structurally independent units and designed simply as:

- Ans
- ☐ 1. flat slab
 - ☐ 2. beams
 - ☒ 3. one-way slab
 - ☐ 4. two-way slab

Question ID : 654978194

Status : Marked For Review

Chosen Option : 3

Q.80 What is the shear stress of fluid at rest?

- Ans
- ☒ 1. Unity
 - ☐ 2. Zero
 - ☐ 3. Uniform
 - ☐ 4. Infinity

Question ID : 654978144

Status : Answered

Chosen Option : 2

Q.81 If D_{10} , D_{30} and D_{60} represent particle sizes in millimetre, then the correct expression for coefficient of curvature (C_c) from a particle size distribution curve is given by:

- Ans
- ☒ 1. $\frac{[D_{30}]^2}{D_{10} \times D_{60}}$
 - ☐ 2. $\frac{[D_{60}]^2}{D_{10} \times D_{30}}$
 - ☐ 3. $\frac{D_{30}}{D_{10}}$
 - ☐ 4. $\frac{D_{60}}{D_{10}}$

Question ID : 654978139

Status : Answered

Chosen Option : 1

Q.82 The quantity (A) of explosive in gram (g) required for rock blasting is roughly estimated using which of the following equation? Where L = length of line of least resistance (m).

- Ans
- ☒ 1. $A = \frac{L^2}{0.008}$
 - ☐ 2. $A = \frac{4L^2}{0.008}$
 - ☐ 3. $A = \frac{4L}{0.008}$
 - ☐ 4. $A = \frac{L}{0.008}$

Question ID : 654978108

Status : Not Answered

Chosen Option : --

Q.83 In the moment distribution method, the ratio of moment shared by a member to the applied moment at the joint is called:

- Ans
- ☐ 1. shape factor
 - ☒ 2. distribution factor
 - ☐ 3. carry over factor
 - ☐ 4. load factor

Question ID : 654978182
Status : Answered
Chosen Option : 3

Q.84 What is the temperature of burning the materials in the kiln, at which the material sinters and partially fuses during the manufacture of Portland cement?

- Ans
- ☐ 1. 1100°C to 1300°C
 - ☒ 2. 1300°C to 1500°C
 - ☐ 3. 950°C to 1100°C
 - ☐ 4. 750°C to 950°C

Question ID : 654978183
Status : Answered
Chosen Option : 2

Q.85 A fluid in which shear stress is more than the yield value and is proportional to rate of shear strain is known as:

- Ans
- ☐ 1. Newtonian fluid
 - ☐ 2. non-Newtonian fluid
 - ☒ 3. ideal plastic fluid
 - ☐ 4. real fluid

Question ID : 654978148
Status : Answered
Chosen Option : 3

Q.86 When the depth of flow in an open channel is greater than critical depth, the flow is said to be:

- Ans
- ☐ 1. Super critical flow
 - ☒ 2. sub-critical flow
 - ☐ 3. critical flow
 - ☐ 4. uniform flow

Question ID : 654978149
Status : Answered
Chosen Option : 2

Q.87 What is the maximum permissible limit of organic solids present in water used in concrete mixing as per IS 456-2000?

- Ans
- ☐ 1. 3000 mg/L
 - ☒ 2. 200 mg/L
 - ☐ 3. 400 mg/L
 - ☐ 4. 2000 mg/L

Question ID : 654978186
Status : Answered
Chosen Option : 2

Q.88 Indian Road Congress (IRC) was set up in the year:

- Ans
- ☐ 1. 1950
 - ☐ 2. 1978
 - ☐ 3. 1956
 - ☒ 4. 1934

Question ID : 654978162
Status : Marked For Review
Chosen Option : 3

Q.89 What is the unit of measurement for honeycomb brick work with a thickness equal to half brick in 1 : 4 mortar?

- Ans
- ☐ 1. Kilogram (kg)
 - ☐ 2. Running metre (r. m.)
 - ☒ 3. Square metre (Sq. m.)
 - ☐ 4. Cubic metre (Cu. m.)

Question ID : 654978114
Status : Marked For Review
Chosen Option : 2

Q.90 What is the total extra widening required for pavement width 7 m on a horizontal curve of radius 100 m if the longest wheel base expected on the road is 7 m and design speed is 50 km/h?

- Ans
- ☐ 1. 2 m
 - ☐ 2. 4 m
 - ☒ 3. 1 m
 - ☐ 4. 3 m

Question ID : 654978168
Status : Answered
Chosen Option : 1

Q.91 Select the INCORRECT statement from the following with respect to a two-way slab.

- Ans
- ☐ 1.
The total load is carried in two directions jointly by slab and its supporting beams.
 - ☒ 2.
The ratio of negative to positive moments is 2.5 for fixed ended condition.
 - ☐ 3.
The advantage of a two-way slab is that it can be reinforced more effectively to resist torsion and shear.
 - ☐ 4.
The two-way slab carries less than 50% of the load in each direction and the remainder is carried by the supporting beams and the columns.

Question ID : 654978193
Status : Marked For Review
Chosen Option : 4

Q.92 In a turbine, the ratio of power available at the shaft of the turbine to the power supplied by the water at inlet of the turbine is called:

- Ans
- ☒ 1. mechanical efficiency
 - ☒ 2. volumetric efficiency
 - ☒ 3. overall efficiency
 - ☒ 4. hydraulic efficiency

Question ID : 654978151

Status : Marked For Review

Chosen Option : 1

Q.93 The ruling principle of surveying is to:

- Ans
- ☒ 1. work from whole to part
 - ☒ 2. work from part to whole
 - ☒ 3. work from line to area
 - ☒ 4. work from point to area

Question ID : 654978125

Status : Answered

Chosen Option : 1

Q.94 What is the capacity of density bottle used generally for determination of specific gravity of fine-grained soil in the laboratory as per IS 2720 (Part 3/sec -1)- 1980?

- Ans
- ☒ 1. 200 ml
 - ☒ 2. 150 ml
 - ☒ 3. 50 ml
 - ☒ 4. 100 ml

Question ID : 654978136

Status : Not Answered

Chosen Option : --

Q.95 What is the drive weight and height of free fall in the case of Standard Penetration Test according to IS 2131-1981?

- Ans
- ☒ 1. 63.5 kg and 60 cm
 - ☒ 2. 63.5 kg and 75 cm
 - ☒ 3. 65 kg and 60 cm
 - ☒ 4. 60 kg and 70 cm

Question ID : 654978138

Status : Answered

Chosen Option : 2

Q.96 Piston and spring analogy method was demonstrated by Terzaghi for which of the following processes?

- Ans
- ☒ 1. Soil particle gradation
 - ☒ 2. Consolidation
 - ☒ 3. Permeability
 - ☒ 4. Compaction

Question ID : 654978141
Status : Answered
Chosen Option : 2

Q.97 The crest of the _____ portion of the weir is kept at a lower level than the crest of the normal portion of the weir.

- Ans
- ☒ 1. pond level
 - ☒ 2. fish ladder
 - ☒ 3. divide wall
 - ☒ 4. under sluice

Question ID : 654978158
Status : Answered
Chosen Option : 4

Q.98 Which of the following is NOT a traversing survey?

- Ans
- ☒ 1. Chain and compass survey
 - ☒ 2. Chain survey
 - ☒ 3. Tacheometer survey
 - ☒ 4. Plane table survey

Question ID : 654978131
Status : Answered
Chosen Option : 2

Q.99 The number of hectares of land irrigated for full growth of a given crop by supply of 1 m^3 per second of water continuously during the entire base period of crop is called:

- Ans
- ☒ 1. Duty
 - ☒ 2. Kor-watering
 - ☒ 3. Delta
 - ☒ 4. Crop water

Question ID : 654978152
Status : Answered
Chosen Option : 1

Q.100 In which of the following types of surveying, is the instrument alidade used?

Ans

-  1. Aerial
-  2. Tacheometric
-  3. Chain
-  4. Plane table

Question ID : 654978134

Status : Answered

Chosen Option : 4