

Junior Engineer Civil Mechanical and Electrical Examination 2024 Paper I

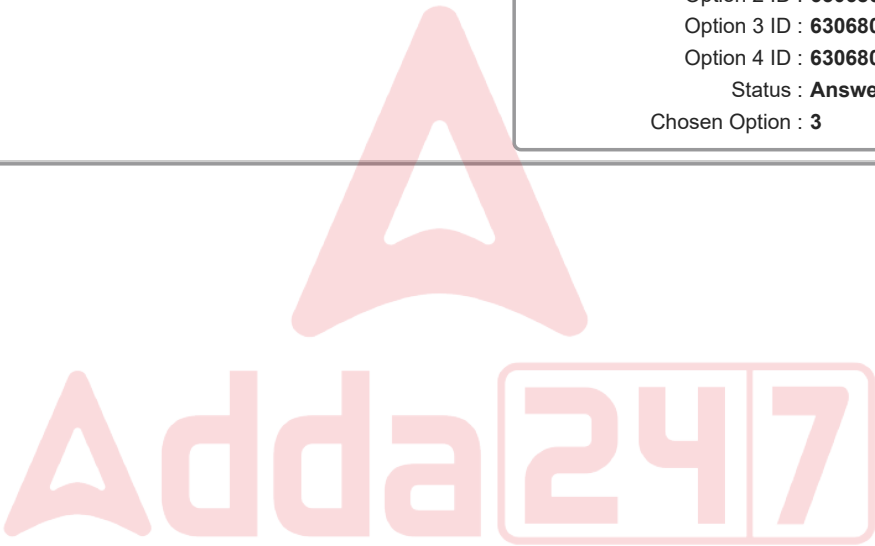
Roll Number	
Candidate Name	
Venue Name	
Exam Date	07/06/2024
Exam Time	9:00 AM - 11:00 AM
Subject	Junior Engineer 2024 Civil Paper I

Section : General Intelligence and Reasoning

Q.1 What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?
 $82 + 52 \div 26 \times 13 - 4 = ?$

- Ans
- ☐ 1. 36
 - ☐ 2. 9
 - ☒ 3. -18
 - ☐ 4. -68

Question ID : 630680377618
Option 1 ID : 6306801471534
Option 2 ID : 6306801471533
Option 3 ID : 6306801471532
Option 4 ID : 6306801471531
Status : Answered
Chosen Option : 3



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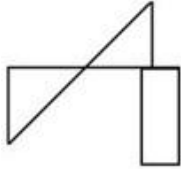


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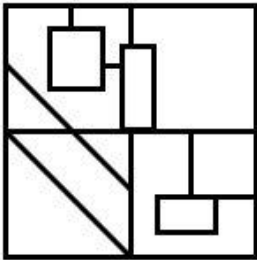
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Q.2 Select the option in which the given figure is embedded (rotation is NOT allowed).

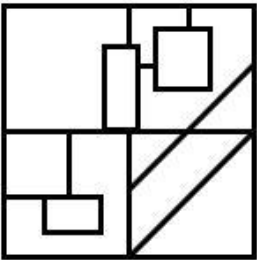


Ans

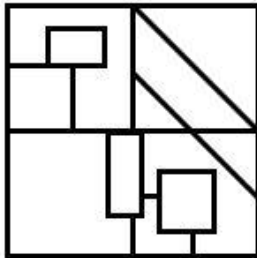
✗ 1.



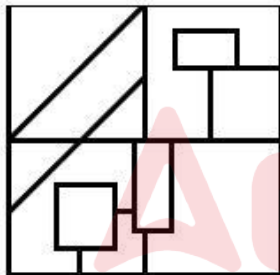
✗ 2.



✗ 3.



✓ 4.



Question ID : 630680524473

Option 1 ID : 6306802049994

Option 2 ID : 6306802049993

Option 3 ID : 6306802049992

Option 4 ID : 6306802049991

Status : Answered

Chosen Option : 4

Q.3 Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which conclusion/s logically follow/s from the given statements.

Statements: All kites are rocks. All rocks are lakes. All lakes are planets.

Conclusions:

(I) All rocks are planets.

(II) At least some lakes are kites.

- Ans** ☒ 1. Only conclusion (I) follows.
☒ 2. Both conclusions (I) and (II) follow.
☒ 3. Neither conclusion (I) nor (II) follows.
☒ 4. Only conclusion (II) follows.

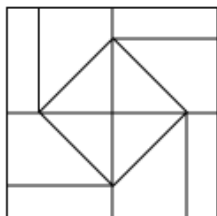
Question ID : 630680376864
 Option 1 ID : 6306801468519
 Option 2 ID : 6306801468522
 Option 3 ID : 6306801468521
 Option 4 ID : 6306801468520
 Status : Answered
 Chosen Option : 2

Q.4 In a certain code language, 'DEFAULT' is coded as 'DTLUAFE' and 'BROUGHT' is coded as 'BTHGUOR'. What is the code for 'FANTASY' in the given language?

- Ans** ☒ 1. YFANTAS
☒ 2. YSATNAF
☒ 3. FYSATNA
☒ 4. SATANF

Question ID : 630680375912
 Option 1 ID : 6306801464719
 Option 2 ID : 6306801464722
 Option 3 ID : 6306801464721
 Option 4 ID : 6306801464720
 Status : Answered
 Chosen Option : 3

Q.5 How many triangles are there in the given figure?



- Ans** ☒ 1. 4
☒ 2. 6
☒ 3. 8
☒ 4. 10

Question ID : 630680474538
 Option 1 ID : 6306801853842
 Option 2 ID : 6306801853843
 Option 3 ID : 6306801853844
 Option 4 ID : 6306801853845
 Status : Answered
 Chosen Option : 3

Q.6 AF 19 is related to CH 16 in a certain way. In the same way, GL 23 is related to IN 20. To which of the following is MR 36 related, following the same logic?

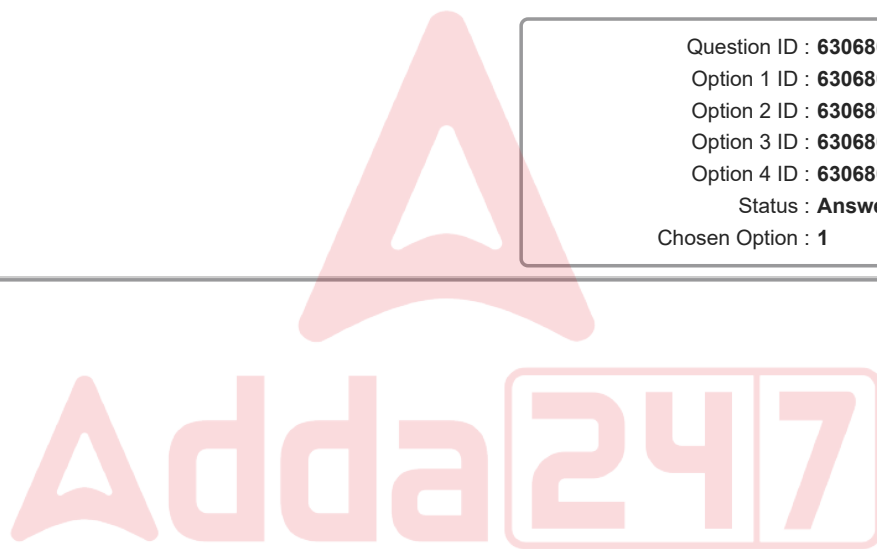
- Ans
- ☒ 1. NT 33
 - ☒ 2. NR 34
 - ☒ 3. OR 34
 - ☒ 4. OT 33

Question ID : 630680377448
 Option 1 ID : 6306801470858
 Option 2 ID : 6306801470856
 Option 3 ID : 6306801470855
 Option 4 ID : 6306801470857
 Status : Answered
 Chosen Option : 4

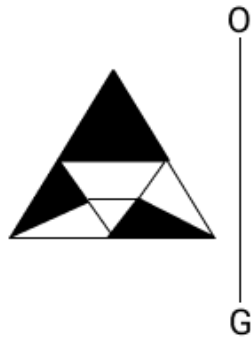
Q.7 If 'A' stands for '+', 'B' stands for '-', 'C' stands for 'x' and 'D' stands for '÷', what will be come in place of question mark (?) in the following equation?
 35 C 4 D 7 B 10 A 2 = ?

- Ans
- ☒ 1. 12
 - ☒ 2. 8
 - ☒ 3. 13
 - ☒ 4. 10

Question ID : 630680396119
 Option 1 ID : 6306801544590
 Option 2 ID : 6306801544589
 Option 3 ID : 6306801544591
 Option 4 ID : 6306801544588
 Status : Answered
 Chosen Option : 1



Q.8 Select the correct mirror image of the given figure when the mirror is placed at OG as shown below.

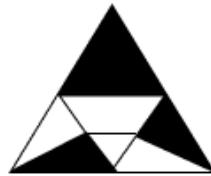


Ans

✗ 1.



✓ 2.



✗ 3.



✗ 4.



Question ID : 630680462565
Option 1 ID : 6306801806463
Option 2 ID : 6306801806464
Option 3 ID : 6306801806465
Option 4 ID : 6306801806466
Status : Answered
Chosen Option : 2

Q.9 IK 3 is related to EO 7 in a certain way. In the same way, YO 5 is related to US 9. To which of the following is ZU 5 related, following the same logic?

Ans ✗ 1. WV 7

✗ 2. VX 9

✓ 3. VY 9

✗ 4. VW 7

Question ID : 630680386528
Option 1 ID : 6306801506822
Option 2 ID : 6306801506825
Option 3 ID : 6306801506824
Option 4 ID : 6306801506823
Status : Answered
Chosen Option : 3

Q.10 In a group of five friends, each has a different age. Sony is younger than Ramesh. Mohan is younger than Chand. Only two people are older than Chand. Sita is younger than Mohan. Who is the second youngest in the group?

- Ans ☒ 1. Mohan
☐ 2. Sita
☐ 3. Sony
☐ 4. Chand

Question ID : 630680518997
Option 1 ID : 6306802028450
Option 2 ID : 6306802028449
Option 3 ID : 6306802028451
Option 4 ID : 6306802028448
Status : Answered
Chosen Option : 1

Q.11 The position(s) of how many letters will remain unchanged if each of the letters in the word ACQUIRE is arranged in the English alphabetical order?

- Ans ☐ 1. Two
☐ 2. One
☐ 3. Zero
☒ 4. Three

Question ID : 630680396627
Option 1 ID : 6306801546608
Option 2 ID : 6306801546609
Option 3 ID : 6306801546610
Option 4 ID : 6306801546611
Status : Answered
Chosen Option : 4

Q.12 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
FXI, CUF, ZRC, WOZ, ?

- Ans ☐ 1. SNV
☐ 2. RMU
☒ 3. TLW
☐ 4. SOU

Question ID : 630680382499
Option 1 ID : 6306801490912
Option 2 ID : 6306801490911
Option 3 ID : 6306801490913
Option 4 ID : 6306801490914
Status : Answered
Chosen Option : 3

Q.13 What should come in place of the question mark (?) in the given series?
96, 104, 112, ?, 128, 136

- Ans
- ☒ 1. 115
 - ☒ 2. 125
 - ☒ 3. 120
 - ☒ 4. 110

Question ID : 630680380562
Option 1 ID : 6306801483235
Option 2 ID : 6306801483238
Option 3 ID : 6306801483236
Option 4 ID : 6306801483237
Status : Answered
Chosen Option : 3

Q.14 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

BLF DJH FHJ HFL ?

- Ans
- ☒ 1. JDY
 - ☒ 2. TFY
 - ☒ 3. GHU
 - ☒ 4. JDN

Question ID : 630680378695
Option 1 ID : 6306801475829
Option 2 ID : 6306801475828
Option 3 ID : 6306801475827
Option 4 ID : 6306801475830
Status : Answered
Chosen Option : 4

Q.15 What will come in place of the question mark (?) in the following equation if '+' and '-' are interchanged and '×' and '÷' are interchanged?

$$31 + 14 - 28 \times 7 \div 13 = ?$$

- Ans
- ☒ 1. 72
 - ☒ 2. 69
 - ☒ 3. 75
 - ☒ 4. 67

Question ID : 630680376971
Option 1 ID : 6306801468950
Option 2 ID : 6306801468949
Option 3 ID : 6306801468947
Option 4 ID : 6306801468948
Status : Answered
Chosen Option : 2

Q.16 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 conclusion(s) logically follow(s) from the statements.

Statement: Some ceilings are skies. Some skies are blue.

Conclusion 1: Some ceilings are blue.

Conclusion 2: Some skies are not blue.

- Ans ☒ 1. Both conclusion 1 and 2 follow
- ☒ 2. Neither conclusion 1 nor 2 follows
- ☒ 3. Only conclusion 1 follows
- ☒ 4. Only conclusion 2 follows

Question ID : 630680381040

Option 1 ID : 6306801485138

Option 2 ID : 6306801485137

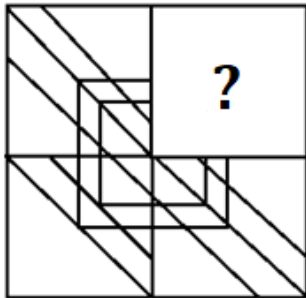
Option 3 ID : 6306801485135

Option 4 ID : 6306801485136

Status : Answered

Chosen Option : 2

Q.17 Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern.

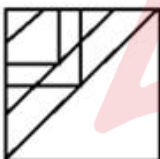


Ans

☒ 1.



☒ 2.



☒ 3.



☒ 4.



Question ID : 630680525606

Option 1 ID : 6306802054509

Option 2 ID : 6306802054511

Option 3 ID : 6306802054510

Option 4 ID : 6306802054508

Status : Answered

Chosen Option : 1

Q.18 In a certain code language, 'we are friends' is written as 'aj er kl' and 'friends are forever' is written as 'er aj pu'. How is 'forever' written in the given language?

- Ans ☒ 1. er
☒ 2. pu
☒ 3. kl
☒ 4. aj

Question ID : 630680388163
Option 1 ID : 6306801513215
Option 2 ID : 6306801513216
Option 3 ID : 6306801513217
Option 4 ID : 6306801513214
Status : Answered
Chosen Option : 2

Q.19 Kirti starts from point A and walks 1 km towards east. She takes a right turn and walks 2 km. She then takes a left turn and walks 3 km. She takes a right turn and walks 4 km. She takes a left turn and walks 5 km. She takes a final left turn and walks 6 km to reach a point B. How far (shortest distance) and towards which direction should she walk in order to reach point A again? (All turns are 90 degree turns only unless specified otherwise.)

- Ans ☒ 1. 9 km west
☒ 2. 8 km west
☒ 3. 6 km west
☒ 4. 7 km west

Question ID : 630680387032
Option 1 ID : 6306801508841
Option 2 ID : 6306801508839
Option 3 ID : 6306801508840
Option 4 ID : 6306801508838
Status : Answered
Chosen Option : 1

Q.20 What will come in the place of the question mark '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?
 $4 - 8 \div 12 + 16 \times 2 = ?$

- Ans ☒ 1. 92
☒ 2. 86
☒ 3. 94
☒ 4. 90

Question ID : 630680376399
Option 1 ID : 6306801466665
Option 2 ID : 6306801466663
Option 3 ID : 6306801466666
Option 4 ID : 6306801466664
Status : Answered
Chosen Option : 1

Q.21 5 is related to 67 following a certain logic. Following the same logic, 7 is related to 93.
To which of the following is 11 related following the same logic?
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting / multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans ☒ 1. 145

☐ 2. 144

☐ 3. 146

☐ 4. 148

Question ID : 630680451718

Option 1 ID : 6306801763958

Option 2 ID : 6306801763959

Option 3 ID : 6306801763960

Option 4 ID : 6306801763961

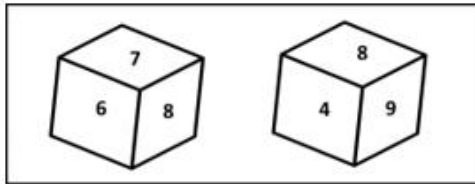
Status : Answered

Chosen Option : 1

Q.22 A dice has its faces marked by numbers 4, 5, 6, 7, 8 and 9. Two positions of the same dice are shown below. Which of the given statements follows?

I) The sum of face 9 and the face opposite to it is a multiple of 3.

II) Face 8 has a prime number as its opposite face.



Ans ☐ 1. Only statement I follows.

☐ 2. Only statement II follows.

☒ 3. Both statements I and II follow.

☐ 4. Neither statement I nor II follows.

Question ID : 630680524639

Option 1 ID : 6306802050655

Option 2 ID : 6306802050656

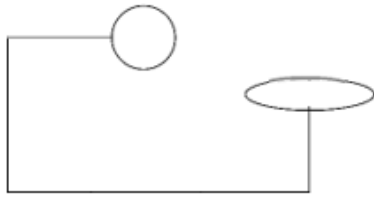
Option 3 ID : 6306802050657

Option 4 ID : 6306802050658

Status : Answered

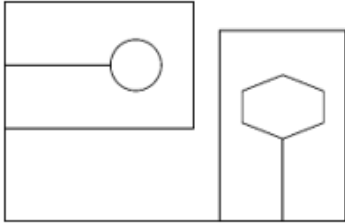
Chosen Option : 3

Q.23 Select the option in which the given figure is embedded (rotation is NOT allowed).

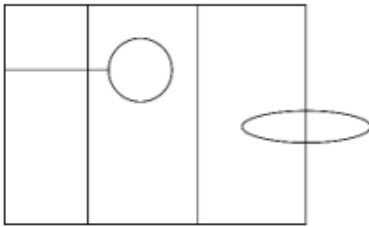


Ans

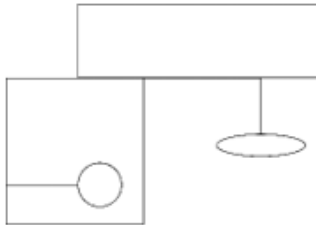
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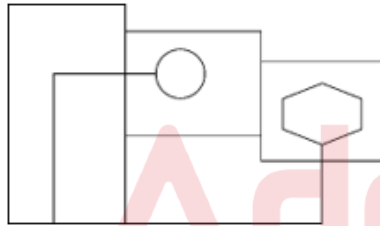
✓ 2.



✗ 3.



✗ 4.



Question ID : 630680524584

Option 1 ID : 6306802050437

Option 2 ID : 6306802050435

Option 3 ID : 6306802050436

Option 4 ID : 6306802050438

Status : Answered

Chosen Option : 2

Q.24 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(4, 32, 8)

(9, 54, 6)

Ans ☒ 1. (8, 89, 17)

☒ 2. (13, 62, 4)

☒ 3. (7, 77, 11)

☒ 4. (9, 106, 12)

Question ID : 630680376810

Option 1 ID : 6306801468304

Option 2 ID : 6306801468306

Option 3 ID : 6306801468303

Option 4 ID : 6306801468305

Status : Answered

Chosen Option : 3

Q.25 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g., 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(36, 75)

(42, 87)

Ans ☒ 1. (45, 93)

☒ 2. (47, 99)

☒ 3. (36, 77)

☒ 4. (48, 100)

Question ID : 630680377727

Option 1 ID : 6306801471967

Option 2 ID : 6306801471969

Option 3 ID : 6306801471970

Option 4 ID : 6306801471968

Status : Answered

Chosen Option : 1

Q.26 उस शब्द-युग्म का चयन कीजिए जो नीचे दिए गए शब्द-युग्म में अभिव्यक्त संबंध के समान संबंध को सर्वोत्तम ढंग से दर्शाता है।

(शब्दों को सार्थक हिंदी शब्दों के रूप में माना जाना चाहिए और शब्द में अक्षरों की संख्या/व्यंजनो/स्वरों की संख्या के आधार पर शब्दों को एक दूसरे से संबंधित नहीं किया जाना चाहिए।)

घोड़ा : घोड़ी (Horse : Mare)

Ans ☒ 1. बक : डो (Buck : Doe)

☒ 2. लोमड़ी : हंस (Fox : Goose)

☒ 3. ड्रोन : बत्तख (Drone : Duck)

☒ 4. मोर : लोमड़ी (Peacock : Vixen)

Question ID : 630680571503

Option 1 ID : 6306802235050

Option 2 ID : 6306802235051

Option 3 ID : 6306802235049

Option 4 ID : 6306802235052

Status : Answered

Chosen Option : 1

Q.27 Which of the following numbers will replace the question mark (?) in the given series?
225, 200, 183, 174, ?, 168

- Ans ☒ 1. 168
☒ 2. 167
☒ 3. 169
☒ 4. 170

Question ID : 630680389944
Option 1 ID : 6306801520235
Option 2 ID : 6306801520236
Option 3 ID : 6306801520234
Option 4 ID : 6306801520237
Status : Answered
Chosen Option : 4

Q.28 L, M, N, D, E, F and G are sitting around a circular table facing the center (not necessarily in the same order). Only three people sit between F and N when counted from the left of F. Only three people sit between L and E when counted from the left of L. Only three people sit between G and D when counted from the left of G. D sits to the immediate left of N. M is not an immediate neighbour of E. Who sits third to the right of M?

- Ans ☒ 1. D
☒ 2. E
☒ 3. G
☒ 4. F

Question ID : 630680376824
Option 1 ID : 6306801468360
Option 2 ID : 6306801468359
Option 3 ID : 6306801468362
Option 4 ID : 6306801468361
Status : Answered
Chosen Option : 4

Q.29 In a certain code language,
'A + B' means 'A is the mother of B',
'A - B' means 'A is the brother of B',
'A × B' means 'A is the sister of B', and
'A ÷ B' means 'A is the husband of B'.
How is L related to R if 'N - S ÷ L × M + Q - R'?

- Ans ☒ 1. Father's sister
☒ 2. Mother's sister
☒ 3. Mother
☒ 4. Mother's mother

Question ID : 630680378715
Option 1 ID : 6306801475910
Option 2 ID : 6306801475908
Option 3 ID : 6306801475909
Option 4 ID : 6306801475907
Status : Answered
Chosen Option : 2

Q.30 YV15 is related to TQ13 in a certain way. In the same way, VS19 is related to QN17. To which of the following is XU13 related, following the same logic?

- Ans
- ☒ 1. RP13
 - ☒ 2. ST13
 - ☒ 3. RP11
 - ☒ 4. SP11

Question ID : 630680379160

Option 1 ID : 6306801477690

Option 2 ID : 6306801477688

Option 3 ID : 6306801477687

Option 4 ID : 6306801477689

Status : Answered

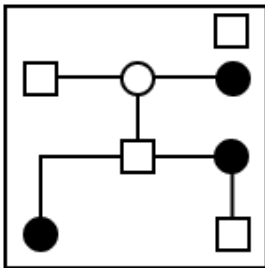
Chosen Option : 4

Q.31 Select the option figure in which the given figure is embedded as its part (rotation is NOT allowed).

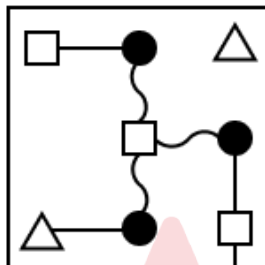


Ans

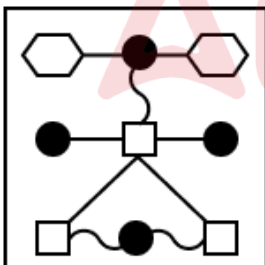
☒ 1.



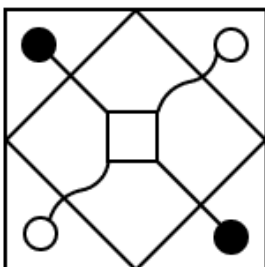
☒ 2.



☒ 3.



☒ 4.



Question ID : 630680422244

Option 1 ID : 6306801647412

Option 2 ID : 6306801647413

Option 3 ID : 6306801647414

Option 4 ID : 6306801647415

Status : Answered

Chosen Option : 2

Q.32 Santhosh starts from his home and drives 5 km towards the east. He then takes a right turn, drives 8 km, turns left, and drives 3 km. He then takes a right turn and drives 5 km and turns left, then drives 3 km to reach his office.
In which direction is the office with respect to his home?
(All turns are 90° turns only, unless specified.)

- Ans
- ☒ 1. West
 - ☒ 2. North
 - ☒ 3. North-east
 - ☒ 4. South-east

Question ID : 630680376873
Option 1 ID : 6306801468556
Option 2 ID : 6306801468555
Option 3 ID : 6306801468557
Option 4 ID : 6306801468558
Status : Answered
Chosen Option : 4

Q.33 In a certain code language, 'BEAR' is coded as '9715' and 'RUST' is coded as '8962'.
What is the code for 'R' in that language?

- Ans
- ☒ 1. 5
 - ☒ 2. 8
 - ☒ 3. 9
 - ☒ 4. 6

Question ID : 630680376700
Option 1 ID : 6306801467863
Option 2 ID : 6306801467864
Option 3 ID : 6306801467865
Option 4 ID : 6306801467866
Status : Answered
Chosen Option : 3

Q.34 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

ACKP, GIQV, MOWB, SUCH, ?

- Ans
- ☒ 1. YAIN
 - ☒ 2. YBIN
 - ☒ 3. YHJK
 - ☒ 4. YASD

Question ID : 630680469528
Option 1 ID : 6306801833879
Option 2 ID : 6306801833880
Option 3 ID : 6306801833881
Option 4 ID : 6306801833882
Status : Answered
Chosen Option : 1

Q.35 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
BFH, CGI, DHJ, EIK, ?

- Ans
- ☒ 1. EJJ
 - ☒ 2. FIL
 - ☒ 3. FJL
 - ☒ 4. GKM

Question ID : 630680379932
Option 1 ID : 6306801480766
Option 2 ID : 6306801480764
Option 3 ID : 6306801480763
Option 4 ID : 6306801480765
Status : Answered
Chosen Option : 3

Q.36 NRMJ is related to PTOL in a certain way based on the English alphabetical order. In the same way, QUPM is related to SWRO. To which of the following is TXSP related, following the same logic?

- Ans
- ☒ 1. VZUR
 - ☒ 2. VZRU
 - ☒ 3. ZVRU
 - ☒ 4. ZVUR

Question ID : 630680466956
Option 1 ID : 6306801823794
Option 2 ID : 6306801823795
Option 3 ID : 6306801823796
Option 4 ID : 6306801823797
Status : Answered
Chosen Option : 1

Q.37 In a certain code language, 'BORN' is coded as '6248' and 'NEST' is coded as '9873'. What is the code for 'N' in the given code language?

- Ans
- ☒ 1. 9
 - ☒ 2. 2
 - ☒ 3. 7
 - ☒ 4. 8

Question ID : 630680377198
Option 1 ID : 6306801469857
Option 2 ID : 6306801469858
Option 3 ID : 6306801469856
Option 4 ID : 6306801469855
Status : Answered
Chosen Option : 4

Q.38 PS 77 is related to UX 108 in a certain way. In the same way, RK 18 is related to WP 49 .
To which of the following is BW 59 related, following the same logic?

- Ans ☒ 1. GB 90
☐ 2. GA 89
☐ 3. IB 87
☐ 4. HC 88

Question ID : 630680377422
Option 1 ID : 6306801470753
Option 2 ID : 6306801470752
Option 3 ID : 6306801470751
Option 4 ID : 6306801470754
Status : Answered
Chosen Option : 1

Q.39 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
(6, 24, 12)
(7, 36, 13)

- Ans ☐ 1. (11, 106, 5)
☒ 2. (9, 66, 15)
☐ 3. (8, 49, 12)
☐ 4. (5, 12, 18)

Question ID : 630680390233
Option 1 ID : 6306801521374
Option 2 ID : 6306801521375
Option 3 ID : 6306801521377
Option 4 ID : 6306801521376
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.40 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
VWZ, BCF, HIL, NOR, TUX, ?

- Ans ☐ 1. YBD
☐ 2. ZAC
☐ 3. YBE
☒ 4. ZAD

Question ID : 630680378628
Option 1 ID : 6306801475559
Option 2 ID : 6306801475561
Option 3 ID : 6306801475562
Option 4 ID : 6306801475560
Status : Answered
Chosen Option : 4

Q.41 11 is related to 77 following a certain logic. Following the same logic, 16 is related to 112. To which of the following is 21 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans ☒ 1. 145
☒ 2. 147
☒ 3. 149
☒ 4. 151

Question ID : 630680397499
Option 1 ID : 6306801549918
Option 2 ID : 6306801549919
Option 3 ID : 6306801549920
Option 4 ID : 6306801549921
Status : Answered
Chosen Option : 2

Q.42 The position(s) of how many letters will remain unchanged if each of the letters in the word FORCING is arranged in the English alphabetical order?

- Ans ☒ 1. Two
☒ 2. Zero
☒ 3. One
☒ 4. Three

Question ID : 630680396645
Option 1 ID : 6306801546672
Option 2 ID : 6306801546673
Option 3 ID : 6306801546674
Option 4 ID : 6306801546675
Status : Answered
Chosen Option : 2

Q.43 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
LQO, MRP, NSQ, OTR, ?

- Ans ☒ 1. UPS
☒ 2. USP
☒ 3. PUS
☒ 4. PSU

Question ID : 630680376922
Option 1 ID : 6306801468751
Option 2 ID : 6306801468752
Option 3 ID : 6306801468754
Option 4 ID : 6306801468753
Status : Answered
Chosen Option : 3

Q.44 Select the correct option that indicates the arrangement of the following words in a logical and meaningful order.

1. Rectangle
2. Hexagon
3. Nonagon
4. Triangle
5. Pentagon

Ans ☒ 1. 4, 1, 5, 2, 3

☒ 2. 5, 2, 3, 1, 4

☒ 3. 4, 2, 5, 1, 3

☒ 4. 3, 2, 1, 4, 5

Question ID : 630680395041

Option 1 ID : 6306801540432

Option 2 ID : 6306801540433

Option 3 ID : 6306801540434

Option 4 ID : 6306801540435

Status : Answered

Chosen Option : 1

Q.45 A, B, C, D, P, Q, and R are sitting around a circular table, facing the centre (not necessarily in the same order). Only D sits between B and C when counted from the left of B. P sits fourth to the right of D. R is an immediate neighbour of both P and C. Q is not an immediate neighbour of P.

How many people are sitting between D and A when counted from the left of A?

Ans ☒ 1. One

☒ 2. Four

☒ 3. Three

☒ 4. Two

Question ID : 630680376657

Option 1 ID : 6306801467691

Option 2 ID : 6306801467694

Option 3 ID : 6306801467693

Option 4 ID : 6306801467692

Status : Answered

Chosen Option : 4

Q.46 LMNB is related to PQRF in a certain way based on the English alphabetical order. In the same way, CDFH is related to GHJL. To which of the following is KTSO related, following the same logic?

Ans ☒ 1. OXWS

☒ 2. RTJH

☒ 3. BMGH

☒ 4. LKFR

Question ID : 630680377691

Option 1 ID : 6306801471823

Option 2 ID : 6306801471824

Option 3 ID : 6306801471826

Option 4 ID : 6306801471825

Status : Answered

Chosen Option : 1

Q.47 In a certain code language,
'A + B' means 'A is the brother of B',
'A - B' means 'A is the mother of B',
'A × B' means 'A is the wife of B' and
'A ÷ B' means 'A is the father of B'.
How is S related to M if 'N × S ÷ A + R - M'?

- Ans
- ☒ 1. Father's mother
 - ☒ 2. Father
 - ☒ 3. Mother's father
 - ☒ 4. Brother's daughter

Question ID : 630680377670
Option 1 ID : 6306801471740
Option 2 ID : 6306801471741
Option 3 ID : 6306801471739
Option 4 ID : 6306801471742
Status : Answered
Chosen Option : 3

Q.48 Select the option in which the numbers share the same relationship as that shared by the given number triads.
2-8-32
5-20-80
(NOTE: Operations should be performed on the whole number, without breaking down the numbers into its constituent digits. E.g. 13- Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed.)

- Ans
- ☒ 1. 5-25-100
 - ☒ 2. 1-4-12
 - ☒ 3. 3-12-48
 - ☒ 4. 4-8-12

Question ID : 630680387172
Option 1 ID : 6306801509385
Option 2 ID : 6306801509382
Option 3 ID : 6306801509383
Option 4 ID : 6306801509384
Status : Answered
Chosen Option : 3

Q.49 What should come in place of '?' in the given series?
743, 648, 553, 458, 363, ?

- Ans
- ☒ 1. 268
 - ☒ 2. 246
 - ☒ 3. 275
 - ☒ 4. 253

Question ID : 630680378804
Option 1 ID : 6306801476266
Option 2 ID : 6306801476263
Option 3 ID : 6306801476264
Option 4 ID : 6306801476265
Status : Answered
Chosen Option : 1

Q.50 Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

Large : Big

- Ans
- ☐ 1. First : Last
 - ☐ 2. Demolish : Repair
 - ☒ 3. Same : Alike
 - ☐ 4. Far : Near

Question ID : 630680566055

Option 1 ID : 6306802213211

Option 2 ID : 6306802213210

Option 3 ID : 6306802213208

Option 4 ID : 6306802213209

Status : Answered

Chosen Option : 2

Section : General Awareness

Q.1 Meera shifted to a new house and was fixing light bulbs in her apartment. One of the three bulbs she fixed did not light up. Upon testing she realised it was a case of fused bulb. So, she bought a new one which then lit up perfectly. Select the correct option that describes what happened to the fused bulb.

- Ans
- ☐ 1. The switch for the bulb was not turned on
 - ☐ 2. Meera did not fix the bulb to the holder properly
 - ☒ 3. The filament inside it was broken
 - ☐ 4. There was no connection between the bulb holder and the switch

Question ID : 630680401738

Option 1 ID : 6306801566718

Option 2 ID : 6306801566719

Option 3 ID : 6306801566720

Option 4 ID : 6306801566721

Status : Answered

Chosen Option : 3

Q.2 Which of the following states initiated Mukhyamantri Digital Seva Yojana for women empowerment through increasing digital reach of women by providing 3 years internet services (data) along with smart phones in 2022?

- Ans
- ☐ 1. Kerala
 - ☐ 2. Himachal Pradesh
 - ☐ 3. Andhra Pradesh
 - ☒ 4. Rajasthan

Question ID : 630680480844

Option 1 ID : 6306801877977

Option 2 ID : 6306801877978

Option 3 ID : 6306801877979

Option 4 ID : 6306801877980

Status : Answered

Chosen Option : 1

Q.3 As of July 2023, who is the Chief Minister of Karnataka?

- Ans ☒ 1. BS Yedurappa
☒ 2. Siddaramaiah
☒ 3. Basavaraj Bommai
☒ 4. Jagadish Shettar

Question ID : 630680513853
 Option 1 ID : 6306802008038
 Option 2 ID : 6306802008040
 Option 3 ID : 6306802008039
 Option 4 ID : 6306802008037
 Status : Answered
 Chosen Option : 2

Q.4 Brine water is saturated or strongly impregnated with which of the following ionic compounds?

- Ans ☒ 1. Sodium bromide
☒ 2. Sodium iodide
☒ 3. Sodium chloride
☒ 4. Sodium hydroxide

Question ID : 630680403003
 Option 1 ID : 6306801571583
 Option 2 ID : 6306801571586
 Option 3 ID : 6306801571585
 Option 4 ID : 6306801571584
 Status : Answered
 Chosen Option : 1

Q.5 In which state is the Bhitarkanika National Park located?

- Ans ☒ 1. Odisha
☒ 2. Manipur
☒ 3. Tamil Nadu
☒ 4. Jharkhand

Question ID : 630680510955
 Option 1 ID : 6306801996951
 Option 2 ID : 6306801996953
 Option 3 ID : 6306801996950
 Option 4 ID : 6306801996952
 Status : Answered
 Chosen Option : 4

Q.6 अक्टूबर 2023 में, किस मुख्यमंत्री ने नए लाभार्थियों को 'ओरुनोदोई कार्ड (Orunodoi Card)' वितरित करने की प्रक्रिया शुरू की थी?

- Ans ☒ 1. वाई.एस. जगनमोहन रेड्डी
☒ 2. नेफियूरियो
☒ 3. पिनाराई विजयन
☒ 4. हिमन्त बिश्व शर्मा

Question ID : 630680412702
 Option 1 ID : 6306801609631
 Option 2 ID : 6306801609632
 Option 3 ID : 6306801609633
 Option 4 ID : 6306801609634
 Status : Answered
 Chosen Option : 1

Q.7 What did the Right of Children to Free and Compulsory Education Act 2009 in India lay down?

- Ans
- ☒ 1. Legal underpinnings for achieving universal higher education
 - ☒ 2. Legal underpinnings for achieving vocational education
 - ☒ 3. Legal underpinnings for achieving universal elementary education
 - ☒ 4. Legal underpinnings for achieving quality and excellence in education

Question ID : 630680488275
 Option 1 ID : 6306801907155
 Option 2 ID : 6306801907156
 Option 3 ID : 6306801907157
 Option 4 ID : 6306801907158
 Status : Answered
 Chosen Option : 3

Q.8 According to Agricultural Statistics at a Glance 2022, Government of India, which state produced 44.48% groundnut of India during the year 2021-2022?

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

Question ID : 630680510949
 Option 1 ID : 6306801996927
 Option 2 ID : 6306801996929
 Option 3 ID : 6306801996928
 Option 4 ID : 6306801996926
 Status : Not Answered
 Chosen Option : --

Q.9 Which of the following statements is true?

- A. Igneous rocks are used as fuel by igniting them.
- B. Sedimentary rocks can never change into metamorphic rocks or magma.
- C. Igneous rocks can change into sedimentary rocks over a long period of time.
- D. Magma can form sedimentary rocks on cooling.

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

Question ID : 630680565160
 Option 1 ID : 6306802209615
 Option 2 ID : 6306802209613
 Option 3 ID : 6306802209614
 Option 4 ID : 6306802209616
 Status : Answered
 Chosen Option : 1

Q.10 What is the acceleration due to gravity on the surface of the Earth?

- Ans ☒ 1. 12.5 m/s²
☒ 2. 9.8 m/s²
☒ 3. 6.2 m/s²
☒ 4. 3.0 m/s²

Question ID : 630680407783
 Option 1 ID : 6306801590073
 Option 2 ID : 6306801590071
 Option 3 ID : 6306801590072
 Option 4 ID : 6306801590070
 Status : Answered
 Chosen Option : 2

Q.11 In which year was the Swaran Singh Committee set up by the Indira Gandhi Government?

- Ans ☒ 1. 1976
☒ 2. 1978
☒ 3. 1974
☒ 4. 1972

Question ID : 630680804337
 Option 1 ID : 6306803151081
 Option 2 ID : 6306803151082
 Option 3 ID : 6306803151080
 Option 4 ID : 6306803151079
 Status : Answered
 Chosen Option : 1

Q.12 The Registration of Births and Deaths (Amendment) Bill 2023 aims to make the _____ only conclusive age proof that can be used as a single document for various purposes.

- Ans ☒ 1. Birth Certificate
☒ 2. ST/SC/OBC Certificate
☒ 3. Aadhar Card
☒ 4. Voter ID

Question ID : 630680804281
 Option 1 ID : 6306803150856
 Option 2 ID : 6306803150858
 Option 3 ID : 6306803150855
 Option 4 ID : 6306803150857
 Status : Answered
 Chosen Option : 1

Q.13 सल्तनत काल का पहला सुल्तान कौन था जिसने संस्कृत से फारसी में हिंदू ग्रंथों के अनुवाद की व्यवस्था की?

- Ans
- ✓ 1. फिरोज शाह तुगलक
 - ✗ 2. अलाउद्दीन खिलजी
 - ✗ 3. मुहम्मद बिन तुगलक
 - ✗ 4. सिकंदर खां लोदी

Question ID : 630680511618
Option 1 ID : 6306801999595
Option 2 ID : 6306801999594
Option 3 ID : 6306801999596
Option 4 ID : 6306801999597
Status : Answered
Chosen Option : 1

Q.14 The National Lata Mangeskar Award 2021 was given to:

- Ans
- ✗ 1. Arijit Singh
 - ✗ 2. Udit Narayan
 - ✗ 3. Sonu Nigam
 - ✓ 4. Kumar Sanu

Question ID : 630680454090
Option 1 ID : 6306801773298
Option 2 ID : 6306801773295
Option 3 ID : 6306801773296
Option 4 ID : 6306801773297
Status : Not Answered
Chosen Option : --

Q.15 The excess cadmium accumulation in our body, damages which part of the body?

- Ans
- ✗ 1. Hands and feet
 - ✗ 2. Eye
 - ✗ 3. Stomach
 - ✓ 4. Liver and kidneys

Question ID : 630680396738
Option 1 ID : 6306801547036
Option 2 ID : 6306801547037
Option 3 ID : 6306801547038
Option 4 ID : 6306801547039
Status : Answered
Chosen Option : 4

Q.16 What is the most common factor for the yellowing of the Taj Mahal gradually over the years?

- Ans
- ✗ 1. Marble reacts with nitrogen in air
 - ✓ 2. Acid rain
 - ✗ 3. Marble turns yellow with time
 - ✗ 4. Carbon monoxide present in air

Question ID : 630680539170
Option 1 ID : 6306802107831
Option 2 ID : 6306802107829
Option 3 ID : 6306802107828
Option 4 ID : 6306802107830
Status : Answered
Chosen Option : 2

Q.17 Who sworn in as a member of the Union Public Service Commission in September 2023?

- Ans ☒ 1. Dinesh Dasa
☒ 2. Suman Sharma
☒ 3. Preeti Sudan
☒ 4. Bidyut Behari Swain

Question ID : 630680804278
 Option 1 ID : 6306803150846
 Option 2 ID : 6306803150843
 Option 3 ID : 6306803150845
 Option 4 ID : 6306803150844
 Status : Answered
 Chosen Option : 1

Q.18 The primary function of which globular structure is to produce and assemble the ribosomes of the cell?

- Ans ☒ 1. Peroxisomes
☒ 2. Nucleolus
☒ 3. Chromatin
☒ 4. Centriole

Question ID : 630680404307
 Option 1 ID : 6306801576726
 Option 2 ID : 6306801576728
 Option 3 ID : 6306801576729
 Option 4 ID : 6306801576727
 Status : Answered
 Chosen Option : 3

Q.19 According to Census of India 2011, India's population accounts for _____ of the world's population.

- Ans ☒ 1. 15.5%
☒ 2. 17.5%
☒ 3. 19.3%
☒ 4. 21.7%

Question ID : 630680477213
 Option 1 ID : 6306801864017
 Option 2 ID : 6306801864018
 Option 3 ID : 6306801864019
 Option 4 ID : 6306801864020
 Status : Answered
 Chosen Option : 2

Q.20 Which sport is Leander Paes associated with?

- Ans ☒ 1. Table Tennis
☒ 2. Tennis
☒ 3. Badminton
☒ 4. Squash

Question ID : 630680430527
 Option 1 ID : 6306801680133
 Option 2 ID : 6306801680134
 Option 3 ID : 6306801680135
 Option 4 ID : 6306801680136
 Status : Not Answered
 Chosen Option : --

Q.21 What is u in the equation $s = ut + \frac{1}{2}at^2$, which represents the position-time relation?

- Ans
- ☒ 1. Uniform acceleration
 - ☒ 2. Initial velocity
 - ☒ 3. Change in momentum
 - ☒ 4. Speed of the object

Question ID : 630680402103
 Option 1 ID : 6306801568097
 Option 2 ID : 6306801568096
 Option 3 ID : 6306801568099
 Option 4 ID : 6306801568098
 Status : Answered
 Chosen Option : 2

Q.22 Which of the following organisations was established in 1906?

- Ans
- ☒ 1. Akhil Bharat Hindu Mahasabha
 - ☒ 2. All India Muslim League
 - ☒ 3. Servants of India Society
 - ☒ 4. Parsi Religious Reform Association

Question ID : 630680572365
 Option 1 ID : 6306802238300
 Option 2 ID : 6306802238301
 Option 3 ID : 6306802238302
 Option 4 ID : 6306802238303
 Status : Answered
 Chosen Option : 2

Q.23 Which institution was formed on 2 April 1990?

- Ans
- ☒ 1. NHB
 - ☒ 2. EXIM Bank
 - ☒ 3. SIDBI
 - ☒ 4. IRBI

Question ID : 630680512480
 Option 1 ID : 6306802002890
 Option 2 ID : 6306802002891
 Option 3 ID : 6306802002892
 Option 4 ID : 6306802002893
 Status : Not Answered
 Chosen Option : --

Q.24 Which of the following are the requisite qualifications of Supreme Court judges?

- 1) He should be a citizen of India.
- 2) He should have been a High Court judge for five years or should have been a High Court advocate for ten years.
- 3) He should be a distinguished jurist in the opinion of the President.
- 4) He should be a minimum of 35 years old.

Ans ☒ 1. Only 1, 3 and 4

☒ 2. Only 1, 2 and 3

☒ 3. Only 1, 2 and 4

☒ 4. Only 2, 3 and 4

Question ID : 630680427109

Option 1 ID : 6306801666509

Option 2 ID : 6306801666510

Option 3 ID : 6306801666511

Option 4 ID : 6306801666512

Status : Answered

Chosen Option : 3

Q.25 Which phylum includes organisms with radial symmetry, such as sea anemones and jellyfish?

Ans ☒ 1. Mollusca

☒ 2. Cnidaria

☒ 3. Porifera

☒ 4. Platyhelminthes

Question ID : 630680540421

Option 1 ID : 6306802112774

Option 2 ID : 6306802112772

Option 3 ID : 6306802112771

Option 4 ID : 6306802112773

Status : Not Answered

Chosen Option : --

Q.26 In which year did Rudolf Virchow develop his ideas by publishing his famous formula 'Omnis cellula-e cellula', which became a part of the foundation of cell theory?

Ans ☒ 1. 1830

☒ 2. 1855

☒ 3. 1890

☒ 4. 1902

Question ID : 630680404311

Option 1 ID : 6306801576746

Option 2 ID : 6306801576747

Option 3 ID : 6306801576748

Option 4 ID : 6306801576749

Status : Not Answered

Chosen Option : --

Q.27 When was the 'Vivad se Vishwas II (Contractual Disputes)' scheme announced by the Union Finance Minister?

- Ans**
- ☐ 1. Union Budget 2020-21
 - ☐ 2. Union Budget 2021-22
 - ☐ 3. Union Budget 2022-23
 - ☒ 4. Union Budget 2023-24

Question ID : 630680469523
 Option 1 ID : 6306801833859
 Option 2 ID : 6306801833860
 Option 3 ID : 6306801833861
 Option 4 ID : 6306801833862
 Status : Not Answered
 Chosen Option : --

Q.28 What does the 'Print Range' option allow you to specify while printing a document?

- Ans**
- ☐ 1. Number of copies to print
 - ☒ 2. Specific area or range of pages to print
 - ☐ 3. Paper size and type
 - ☐ 4. Printer settings

Question ID : 630680571819
 Option 1 ID : 6306802236173
 Option 2 ID : 6306802236174
 Option 3 ID : 6306802236175
 Option 4 ID : 6306802236176
 Status : Answered
 Chosen Option : 1

Q.29 Where was the Paramhans Mandali formed in the year 1840 to eradicate the Caste System?

- Ans**
- ☐ 1. Murshidabad
 - ☐ 2. Calcutta
 - ☐ 3. Delhi
 - ☒ 4. Bombay

Question ID : 630680511589
 Option 1 ID : 6306801999481
 Option 2 ID : 6306801999478
 Option 3 ID : 6306801999480
 Option 4 ID : 6306801999479
 Status : Answered
 Chosen Option : 2

Q.30 Which government agency released the draft Registration of Consumer Organisations (Amendment) Regulations on 14 September 2023?

- Ans**
- ☒ 1. Telecom Regulatory Authority of India (TRAI)
 - ☐ 2. Insurance Regulatory and Development Authority of India (IRDAI)
 - ☐ 3. Advertising Standards Council of India (ASCI)
 - ☐ 4. Securities and Exchange Board of India (SEBI)

Question ID : 630680411235
 Option 1 ID : 6306801603692
 Option 2 ID : 6306801603693
 Option 3 ID : 6306801603694
 Option 4 ID : 6306801603695
 Status : Answered
 Chosen Option : 4

Q.31 Which Article of the Constitution of India grants citizens the right to freedom of speech and expression, freedom of assembly and freedom to practice any profession?

- Ans
- ☒ 1. Article 17
 - ☒ 2. Article 18
 - ☒ 3. Article 19
 - ☒ 4. Article 25

Question ID : 630680426438
 Option 1 ID : 6306801663838
 Option 2 ID : 6306801663839
 Option 3 ID : 6306801663840
 Option 4 ID : 6306801663841
 Status : Answered
 Chosen Option : 3

Q.32 The Parsi reform movement Rahnumai Mazdayasna Sabha was founded in which year?

- Ans
- ☒ 1. 1851
 - ☒ 2. 1841
 - ☒ 3. 1849
 - ☒ 4. 1855

Question ID : 630680511538
 Option 1 ID : 6306801999274
 Option 2 ID : 6306801999277
 Option 3 ID : 6306801999275
 Option 4 ID : 6306801999276
 Status : Not Answered
 Chosen Option : --

Q.33 Which of the following is the most important disease related to Vitamin C deficiency?

- Ans
- ☒ 1. Scurvy
 - ☒ 2. Goitre
 - ☒ 3. Atherosclerosis
 - ☒ 4. Pellagra

Question ID : 630680404154
 Option 1 ID : 6306801576104
 Option 2 ID : 6306801576103
 Option 3 ID : 6306801576105
 Option 4 ID : 6306801576102
 Status : Answered
 Chosen Option : 1

Q.34 What is the keyboard shortcut to edit the contents of a cell in Microsoft Excel?

- Ans
- ☒ 1. F2
 - ☒ 2. Alt + E
 - ☒ 3. Shift + Enter
 - ☒ 4. Ctrl + S

Question ID : 630680571937
 Option 1 ID : 6306802236644
 Option 2 ID : 6306802236645
 Option 3 ID : 6306802236646
 Option 4 ID : 6306802236647
 Status : Answered
 Chosen Option : 2

Q.35 What is the chemical reaction that occurs when fats or oils combine with a strong alkali, such as sodium hydroxide, to make soap?

- Ans** ☒ 1. Saponification
☐ 2. Combustion
☐ 3. Fermentation
☐ 4. Oxidation

Question ID : **630680412110**
 Option 1 ID : **6306801607263**
 Option 2 ID : **6306801607264**
 Option 3 ID : **6306801607265**
 Option 4 ID : **6306801607266**
 Status : **Answered**
 Chosen Option : **1**

Q.36 Which element is a transition metal in Group 9 of the periodic table?

- Ans** ☐ 1. Iron (Fe)
☐ 2. Copper (Cu)
☐ 3. Nickel (Ni)
☒ 4. Cobalt (Co)

Question ID : **630680540392**
 Option 1 ID : **6306802112659**
 Option 2 ID : **6306802112662**
 Option 3 ID : **6306802112661**
 Option 4 ID : **6306802112660**
 Status : **Answered**
 Chosen Option : **2**

Q.37 Which of the following is an example of a terrestrial biome?

- Ans** ☐ 1. Kelp forest
☐ 2. Coral reef
☐ 3. Estuary
☒ 4. Taiga

Question ID : **630680540580**
 Option 1 ID : **6306802113398**
 Option 2 ID : **6306802113395**
 Option 3 ID : **6306802113397**
 Option 4 ID : **6306802113396**
 Status : **Answered**
 Chosen Option : **2**

Q.38 What is the purpose of the geo-portal 'Greening and Restoration of Wastelands with Agroforestry (GROW)' developed by NITI Aayog?

- Ans
- ☒ 1. Promoting agro-based industries
 - ☒ 2. Identifying suitable areas for agroforestry interventions
 - ☒ 3. Tracking wildlife migration
 - ☒ 4. Monitoring urban agriculture development projects

Question ID : 630680488130
 Option 1 ID : 6306801906579
 Option 2 ID : 6306801906580
 Option 3 ID : 6306801906581
 Option 4 ID : 6306801906582
 Status : Answered
 Chosen Option : 2

Q.39 In which of the following Indian States was the 50th All India Inter-Institutional Table Tennis Championships organised in 2023?

- Ans
- ☒ 1. Kerala
 - ☒ 2. Karnataka
 - ☒ 3. Andhra Pradesh
 - ☒ 4. Haryana

Question ID : 630680460176
 Option 1 ID : 6306801797150
 Option 2 ID : 6306801797151
 Option 3 ID : 6306801797152
 Option 4 ID : 6306801797153
 Status : Not Answered
 Chosen Option : --

Q.40 The type of carbohydrate predominantly found in potatoes is _____.

- Ans
- ☒ 1. Sugar
 - ☒ 2. Glucose
 - ☒ 3. Starch
 - ☒ 4. Fructose

Question ID : 630680539580
 Option 1 ID : 6306802109449
 Option 2 ID : 6306802109450
 Option 3 ID : 6306802109451
 Option 4 ID : 6306802109452
 Status : Answered
 Chosen Option : 3

Q.41 Pandit Kumar Gandharva received the _____ in 1977 for his contributions in the field of Hindustani Classical music.

- Ans
- ☒ 1. Padma Shri
 - ☒ 2. Padma Bhushan
 - ☒ 3. Tansen Samman
 - ☒ 4. Karnataka Ratna

Question ID : 630680701416
 Option 1 ID : 6306802747601
 Option 2 ID : 6306802747602
 Option 3 ID : 6306802747603
 Option 4 ID : 6306802747604
 Status : Not Answered
 Chosen Option : --

Q.42 Besides the cell organelles, there are various types of non-living components within a cell, which are known as:

- Ans ☒ 1. Cytoplasmic Inclusion
☒ 2. Plasmodesmata
☒ 3. Tubules
☒ 4. Microfibrils

Question ID : 630680596969
Option 1 ID : 6306802335925
Option 2 ID : 6306802335926
Option 3 ID : 6306802335927
Option 4 ID : 6306802335928
Status : Answered
Chosen Option : 3

Q.43 According to Census of India 2011, what is the percentage of Hindu population in India?

- Ans ☒ 1. 79.8%
☒ 2. 84.1%
☒ 3. 75.6%
☒ 4. 72.7%

Question ID : 630680477709
Option 1 ID : 6306801865984
Option 2 ID : 6306801865985
Option 3 ID : 6306801865986
Option 4 ID : 6306801865987
Status : Answered
Chosen Option : 1

Q.44 Identify whether the following statements are true (T) or false (F) and select the correct option.

- A. On solidification, molten magma forms sedimentary rocks.
B. Igneous rocks can be intrusive or extrusive.
C. Under the effect of high temperatures and pressure, sedimentary rocks change to metamorphic rocks.
D. Under the effect of high temperatures and pressure, igneous rocks change to metamorphic rocks.

- Ans ☒ 1. TTFF
☒ 2. FTTT
☒ 3. TTTF
☒ 4. TFFF

Question ID : 630680546835
Option 1 ID : 6306802137908
Option 2 ID : 6306802137909
Option 3 ID : 6306802137907
Option 4 ID : 6306802137910
Status : Answered
Chosen Option : 3

Q.45 Which of the following Articles of the Indian Constitution is related to the Directive Principles of State Policy?

- Ans
- ☒ 1. Articles 11-50
 - ☒ 2. Articles 25-55
 - ☒ 3. Articles 36-51
 - ☒ 4. Articles 50-101

Question ID : 630680493642
 Option 1 ID : 6306801928296
 Option 2 ID : 6306801928297
 Option 3 ID : 6306801928298
 Option 4 ID : 6306801928299
 Status : Answered
 Chosen Option : 3

Q.46 Choose the correct statement/s from the following.
 i. It is difficult to carry one's wealth under a barter system of transactions.
 ii. Money is perishable and it cannot be stored.
 iii. An increase in the price level can diminish the purchasing power of currency.

- Ans
- ☒ 1. i and iii
 - ☒ 2. ii and iii
 - ☒ 3. i and ii
 - ☒ 4. Only ii

Question ID : 630680402055
 Option 1 ID : 6306801567920
 Option 2 ID : 6306801567921
 Option 3 ID : 6306801567922
 Option 4 ID : 6306801567923
 Status : Answered
 Chosen Option : 2

Q.47 What is the height of Mahendragiri which is the highest peak in the Eastern Ghats?

- Ans
- ☒ 1. 1150 meters
 - ☒ 2. 1501 meters
 - ☒ 3. 1510 meters
 - ☒ 4. 1051 meters

Question ID : 630680511031
 Option 1 ID : 6306801997255
 Option 2 ID : 6306801997256
 Option 3 ID : 6306801997254
 Option 4 ID : 6306801997257
 Status : Not Answered
 Chosen Option : --

Q.48 Who can appoint the judges of the High Court?

- Ans
- ☒ 1. Governor
 - ☒ 2. President
 - ☐ 3. Prime Minister
 - ☐ 4. Attorney General

Question ID : 630680511450
 Option 1 ID : 6306801998930
 Option 2 ID : 6306801998931
 Option 3 ID : 6306801998932
 Option 4 ID : 6306801998933
 Status : Answered
 Chosen Option : 2

Q.49 Which river has its source in the Western Ghats range of Karnataka state?

- Ans
- ☒ 1. Kaveri
 - ☐ 2. Sarayu
 - ☐ 3. Banas
 - ☐ 4. Kosi

Question ID : 630680562826
 Option 1 ID : 6306802200238
 Option 2 ID : 6306802200239
 Option 3 ID : 6306802200237
 Option 4 ID : 6306802200240
 Status : Answered
 Chosen Option : 1

Q.50 In the ecosystem, there can be multiple food chains, but only a limited number of trophic levels. Based on this statement which of the following is NOT true?

- A: Each level in the food chain represents one trophic level
 B: Organisms in the lowest trophic level have the highest population as a lot of energy is available for their survival
 C: There is a loss of energy as it is being absorbed by organisms at the higher trophic level
 D: Organisms at the highest trophic level make their own food and do not fully depend on the lower trophic organisms for energy.

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

Question ID : 630680403335
 Option 1 ID : 6306801572849
 Option 2 ID : 6306801572850
 Option 3 ID : 6306801572851
 Option 4 ID : 6306801572852
 Status : Answered
 Chosen Option : 4

Q.1 In a sieve analysis of soil, the total weight of soil taken was 500 g. The mass of soil retained over 4.75 mm sieve was 100 g, mass retained over 2 mm sieve was 150 g, and the mass retained over 425-micron sieve was 200 g. The effective size of the soil will be:

- Ans
- ☒ 1. 75 microns
 - ☒ 2. 2 mm
 - ☒ 3. 425 microns
 - ☒ 4. 4.75 mm

Question ID : 630680504534

Option 1 ID : 6306801971700

Option 2 ID : 6306801971697

Option 3 ID : 6306801971699

Option 4 ID : 6306801971698

Status : Answered

Chosen Option : 3

Q.2 What does the following traffic sign indicate?



- Ans
- ☒ 1. Railway crossing
 - ☒ 2. Narrow bridge ahead
 - ☒ 3. Major Road
 - ☒ 4. One way

Question ID : 630680205178

Option 1 ID : 630680795577

Option 2 ID : 630680795575

Option 3 ID : 630680795576

Option 4 ID : 630680795578

Status : Answered

Chosen Option : 2

Q.3 The maximum water-cement ratios for plain cement concrete and reinforced cement concrete under severe exposure conditions are ____ and ____ respectively. Consider the aggregates are normal weight with 20 mm nominal maximum size.

- Ans
- ☒ 1. 0.50; 0.45
 - ☒ 2. 0.45; 0.45
 - ☒ 3. 0.40; 0.40
 - ☒ 4. 0.60; 0.50

Question ID : 630680503284

Option 1 ID : 6306801966721

Option 2 ID : 6306801966723

Option 3 ID : 6306801966724

Option 4 ID : 6306801966722

Status : Answered

Chosen Option : 1

Q.4 Which of the following statements are correct with respect to Mohr- Coulomb failure criteria on soils.
 I: Mohr failure envelope is approximated as straight line but in actual, it is curved.
 II: Mohr failure envelope is approximated as a curved line but in actual, it is straight.
 III: The Mohr circle drawn for soil cannot cross the Mohr failure envelope.
 IV. Cohesion c and angle of internal friction ϕ are fundamental properties of soil and are independent of testing conditions.

- Ans
- ☒ 1. I and IV
 - ☒ 2. II and III
 - ☒ 3. I and III
 - ☒ 4. II and IV

Question ID : 630680504514
 Option 1 ID : 6306801971618
 Option 2 ID : 6306801971619
 Option 3 ID : 6306801971617
 Option 4 ID : 6306801971620
 Status : Answered
 Chosen Option : 1

Q.5 What is the chemical combination formula of Plaster of Paris?

- Ans
- ☒ 1. $\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$
 - ☒ 2. $\text{CaCO}_3 \cdot 2\text{H}_2\text{O}$
 - ☒ 3. $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
 - ☒ 4. $\text{CaSO}_3 \cdot 2\text{H}_2\text{O}$

Question ID : 630680509706
 Option 1 ID : 6306801992032
 Option 2 ID : 6306801992031
 Option 3 ID : 6306801992030
 Option 4 ID : 6306801992029
 Status : Answered
 Chosen Option : 3

Q.6 Calculate the net area of the tension member consists a drilled hole of diameter 22 mm to place a M20 bolt. Take thickness of the tension member as 10 mm and gross area 1000 mm^2 .

- Ans
- ☒ 1. 680 mm^2
 - ☒ 2. 780 mm^2
 - ☒ 3. 1000 mm^2
 - ☒ 4. 550 mm^2

Question ID : 630680377320
 Option 1 ID : 6306801470345
 Option 2 ID : 6306801470343
 Option 3 ID : 6306801470344
 Option 4 ID : 6306801470346
 Status : Answered
 Chosen Option : 2

Q.7 Identify the correct relationship for annual sinking fund.

Where,

I = Annual sinking fund,

S = Total amount of sinking fund invested on that

i = Rate of interest

n = number of years required to get 'S'

Ans

✓ 1. Sinking fund (I) = $\frac{Si}{(1+i)^n - 1}$

✗ 2. Sinking fund (I) = $\frac{Si}{(1+n)^i - 1}$

✗ 3. Sinking fund (I) = $\frac{ni}{(1+n)^s - 1}$

✗ 4. Sinking fund (I) = $\frac{ni}{(1+s)^n - 1}$

Question ID : 630680211792

Option 1 ID : 630680821316

Option 2 ID : 630680821315

Option 3 ID : 630680821318

Option 4 ID : 630680821317

Status : Answered

Chosen Option : 1

Q.8 A compound pipeline consists of two pieces of identical pipes. The equivalent length of the same diameter and the same friction factor for this compound pipeline is L_1 when the pipes are connected in series and is L_2 when the pipes are connected in parallel. Determine the ratio of equivalent lengths, that is, L_1 to L_2 .

Ans ✗ 1. 64 : 1

✓ 2. 8 : 1

✗ 3. 4 : 1

✗ 4. 32 : 1

Question ID : 630680506980

Option 1 ID : 6306801981426

Option 2 ID : 6306801981425

Option 3 ID : 6306801981427

Option 4 ID : 6306801981428

Status : Answered

Chosen Option : 4

Q.9 As per IS 3129-1985, the permissible tolerance for the length of finished boards shall be _____.

Ans ✗ 1. ±6 mm

✗ 2. ±4 mm

✗ 3. ±2 mm

✓ 4. ±8 mm

Question ID : 630680509686

Option 1 ID : 6306801991951

Option 2 ID : 6306801991950

Option 3 ID : 6306801991949

Option 4 ID : 6306801991952

Status : Answered

Chosen Option : 2

Q.10 Which process of cement manufacturing is commonly used in modern cement plants?

- Ans ☒ 1. Dry or wet process based on structural element the cement is used for
☒ 2. Dry or wet process based on setting time requirement of cement
☒ 3. Dry process
☒ 4. Wet process

Question ID : 630680383106
 Option 1 ID : 6306801493334
 Option 2 ID : 6306801493333
 Option 3 ID : 6306801493331
 Option 4 ID : 6306801493332
 Status : Answered
 Chosen Option : 2

Q.11 In a hydraulic jump occurring in a horizontal rectangular channel, the sequent depths are 0.25 m and 1.25 m. The energy loss in this jump is:

- Ans ☒ 1. 1.25 m
☒ 2. 1.5 m
☒ 3. 1 m
☒ 4. 0.80 m

Question ID : 630680506981
 Option 1 ID : 6306801981431
 Option 2 ID : 6306801981432
 Option 3 ID : 6306801981429
 Option 4 ID : 6306801981430
 Status : Answered
 Chosen Option : 4

Q.12 If a device consists of one inlet and one outlet and the volume flow rates at the inlet and at the outlet are equal, then the flow through the device:

- Ans ☒ 1. must be laminar
☒ 2. must be steady
☒ 3. must be uniform
☒ 4. is not necessarily steady

Question ID : 630680506962
 Option 1 ID : 6306801981356
 Option 2 ID : 6306801981354
 Option 3 ID : 6306801981353
 Option 4 ID : 6306801981355
 Status : Answered
 Chosen Option : 2

Q.13 A material has linear strains along X, Y and Z directions as 0.05, 0.10 and 0.10, respectively. Hydrostatic stress acting at a point in the material is 25 N/mm^2 . Calculate the bulk modulus.

- Ans
- ☒ 1. 500 N/mm^2
 - ☒ 2. 100 N/mm^2
 - ☒ 3. 125 N/mm^2
 - ☒ 4. 250 N/mm^2

Question ID : 630680509121

Option 1 ID : 6306801989779

Option 2 ID : 6306801989781

Option 3 ID : 6306801989782

Option 4 ID : 6306801989780

Status : Not Attempted and
Marked For Review

Chosen Option : --

Q.14 In case of unavailability of space for providing development length in an RCC beam which option shall NOT be used to satisfy the criteria of development length?

- Ans
- ☒ 1. Bends
 - ☒ 2. Chairs
 - ☒ 3. Mechanical anchorages
 - ☒ 4. Hooks

Question ID : 630680509648

Option 1 ID : 6306801991798

Option 2 ID : 6306801991800

Option 3 ID : 6306801991799

Option 4 ID : 6306801991797

Status : Answered

Chosen Option : 2

Q.15 The soil component with particles passing through 4.75 mm IS sieve but retained on 75 micron IS sieve, is known as _____.

- Ans
- ☒ 1. cobble
 - ☒ 2. sand
 - ☒ 3. residue
 - ☒ 4. mud

Question ID : 630680198697

Option 1 ID : 630680770750

Option 2 ID : 630680770749

Option 3 ID : 630680770748

Option 4 ID : 630680770747

Status : Answered

Chosen Option : 2

Q.16 The water-cement ratio is given by _____.

- Ans
- ☐ 1. Weight of cement / Volume of water
 - ☐ 2. Volume of water / Weight of cement
 - ☐ 3. Weight of cement / weight of water
 - ☒ 4. Weight of water / Weight of cement

Question ID : 630680503285

Option 1 ID : 6306801966728

Option 2 ID : 6306801966726

Option 3 ID : 6306801966727

Option 4 ID : 6306801966725

Status : Answered

Chosen Option : 2

Q.17 In triangulation, the point at which astronomical observations for the azimuth and the longitude are made by use of Laplace equation is called _____.

- Ans
- ☒ 1. Laplace station
 - ☐ 2. base line
 - ☐ 3. base station
 - ☐ 4. subsidiary station

Question ID : 630680506233

Option 1 ID : 6306801978449

Option 2 ID : 6306801978452

Option 3 ID : 6306801978451

Option 4 ID : 6306801978450

Status : Answered

Chosen Option : 3

Q.18 An abstract of estimated cost is prepared after obtaining the cost of each individual item of work and then adding them all together. This estimated cost is increased by 5% to account for any unforeseen expenses, which are referred to as:

- Ans
- ☒ 1. contingencies
 - ☐ 2. work charged establishment
 - ☐ 3. overhead charges
 - ☐ 4. departmental charges

Question ID : 630680504094

Option 1 ID : 6306801969937

Option 2 ID : 6306801969938

Option 3 ID : 6306801969939

Option 4 ID : 6306801969940

Status : Answered

Chosen Option : 1

Q.19 For a semicircular plate of diameter 'D' and radius 'R', with 'y' as the vertical axis passing through the diameter and 'x' as the horizontal axis passing through the diameter, the moment of inertia about the y axis will be:

Ans

✓ 1. $\frac{\pi D^4}{128}$

✗ 2. $0.10976 R^3$

✗ 3. $\frac{\pi D^4}{16}$

✗ 4. $0.10976 R^4$

Question ID : 630680338715

Option 1 ID : 6306801317514

Option 2 ID : 6306801317516

Option 3 ID : 6306801317515

Option 4 ID : 6306801317513

Status : Answered

Chosen Option : 1

Q.20 In a soil's three-phase diagram, the constituents of soil are:

Ans

✗ 1. segregated in four parts

✗ 2. mixed together

✓ 3. segregated in three parts

✗ 4. segregated in two parts

Question ID : 630680504518

Option 1 ID : 6306801971636

Option 2 ID : 6306801971635

Option 3 ID : 6306801971633

Option 4 ID : 6306801971634

Status : Answered

Chosen Option : 3

Q.21 Which of the following is NOT a source of noise pollution?

Ans

✗ 1. Traffic noise

✓ 2. Soft music

✗ 3. Aircraft sounds

✗ 4. Noise from industrial areas

Question ID : 630680370939

Option 1 ID : 6306801445079

Option 2 ID : 6306801445081

Option 3 ID : 6306801445082

Option 4 ID : 6306801445080

Status : Answered

Chosen Option : 2

Q.22 In plywood, three or more veneers in odd numbers are placed one above the other with the direction of grains of successive layers at _____ to each other.

- Ans
- ☒ 1. 45°
 - ☒ 2. 30°
 - ☒ 3. 90°
 - ☒ 4. 60°

Question ID : 630680509698
 Option 1 ID : 6306801991998
 Option 2 ID : 6306801991997
 Option 3 ID : 6306801992000
 Option 4 ID : 6306801991999
 Status : Answered
 Chosen Option : 3

Q.23 If a steel column is designed for its stability, then the slenderness ratio is defined as the:

- Ans
- ☒ 1. ratio of the least lateral dimension to the length
 - ☒ 2. ratio of the length to the least lateral dimension
 - ☒ 3. ratio of the length to the depth
 - ☒ 4. ratio of the length to the maximum lateral dimension

Question ID : 630680509645
 Option 1 ID : 6306801991788
 Option 2 ID : 6306801991787
 Option 3 ID : 6306801991785
 Option 4 ID : 6306801991786
 Status : Answered
 Chosen Option : 2

Q.24 The integration constant C1 used in Macaulay's method of analysis is obtained by applying _____ to the integrated (1st integral) differential equation of given beam elastic curve.

- Ans
- ☒ 1. boundary condition for slope
 - ☒ 2. Partial Factor of safety
 - ☒ 3. Load factor
 - ☒ 4. boundary condition for deflection

Question ID : 630680191846
 Option 1 ID : 630680743986
 Option 2 ID : 630680743987
 Option 3 ID : 630680743988
 Option 4 ID : 630680743985
 Status : Answered
 Chosen Option : 4

Q.25 Which of the following statements are correct
In chain/tape surveying, the 3-4-5 method can be used:
i. to setout contour line
ii. to draw a perpendicular line to the chain line,
iii. to draw a perpendicular offset,
iv. to remove the obstacle to ranging.

- Ans** ☒ 1. ii and iv
☒ 2. ii and iii
☒ 3. iii and iv
☒ 4. i and iv

Question ID : 630680506248
Option 1 ID : 6306801978512
Option 2 ID : 6306801978510
Option 3 ID : 6306801978511
Option 4 ID : 6306801978509
Status : Answered
Chosen Option : 2

Q.26 Estimate the quantity of plastering required to plaster both the face of a wall of 5 m long, 4m high and 30 cm thickness, Ignore thickness faces of wall

- Ans** ☒ 1. 20 sq. m
☒ 2. 50 sq. m
☒ 3. 40 sq. m
☒ 4. 24 sq. m

Question ID : 630680504081
Option 1 ID : 6306801969888
Option 2 ID : 6306801969887
Option 3 ID : 6306801969885
Option 4 ID : 6306801969886
Status : Answered
Chosen Option : 3

Q.27 According to the Newton's law of viscosity, the shear stress of a fluid element layer is directly proportional to the _____.

- Ans** ☒ 1. bulk modulus
☒ 2. elastic modulus
☒ 3. rate of shear strain
☒ 4. pressure

Question ID : 630680385103
Option 1 ID : 6306801501301
Option 2 ID : 6306801501300
Option 3 ID : 6306801501298
Option 4 ID : 6306801501299
Status : Answered
Chosen Option : 3

Q.28 Which of the following is used as a finishing coat for surfaces of X-ray rooms?

- Ans ☐ 1. Colocrete
☐ 2. Parian cement
☒ 3. Barium plaster
☐ 4. Snowcrete

Question ID : 630680198710
 Option 1 ID : 630680770802
 Option 2 ID : 630680770801
 Option 3 ID : 630680770799
 Option 4 ID : 630680770800
 Status : Answered
 Chosen Option : 3

Q.29 A diamond intersection on the road is a type of:

- Ans ☐ 1. At grade intersection
☒ 2. Grade separated intersection
☐ 3. T intersection
☐ 4. Four way stop

Question ID : 630680377382
 Option 1 ID : 6306801470593
 Option 2 ID : 6306801470591
 Option 3 ID : 6306801470592
 Option 4 ID : 6306801470594
 Status : Answered
 Chosen Option : 2

Q.30 Following are the data of an externally focusing telescope used for a tacheometric survey.

Staff intercept	1.52 m
Interval between stadia hair	5 mm
Distance between the vertical axis of the telescope and the objective	120 mm
Focal length of the objective	0.3 m

The value of the multiplying constant is _____.

- Ans ☐ 1. 12.67
☐ 2. 2.5
☒ 3. 60
☐ 4. 24

Question ID : 630680506202
 Option 1 ID : 6306801978325
 Option 2 ID : 6306801978327
 Option 3 ID : 6306801978328
 Option 4 ID : 6306801978326
 Status : Answered
 Chosen Option : 2

Q.31 If the water table reaches the ground level, the unit weight of soil for bearing capacity calculation is taken as:

- Ans ☐ 1. dry unit weight
☐ 2. bulk unit weight
☐ 3. saturated unit weight
☒ 4. submerged unit weight

Question ID : 630680504557
 Option 1 ID : 6306801971792
 Option 2 ID : 6306801971791
 Option 3 ID : 6306801971790
 Option 4 ID : 6306801971789
 Status : Answered
 Chosen Option : 4

Q.32 If the velocity of flow of water through the soil is 0.01 cm/s and the piezometer readings at the end points A and B of soil sample are 10 cm and 5 cm, respectively. The distance between the points A and B is 20 cm. Find the coefficient of permeability of the soil sample.

- Ans ☐ 1. 4 cm/s
☒ 2. 0.04 cm/s
☐ 3. 0.25 cm/s
☐ 4. 0.025 cm/s

Question ID : 630680504541
 Option 1 ID : 6306801971727
 Option 2 ID : 6306801971725
 Option 3 ID : 6306801971728
 Option 4 ID : 6306801971726
 Status : Answered
 Chosen Option : 2

Q.33 Which of the following statements about sanitary landfilling is INCORRECT?

- Ans ☐ 1. Another name of sanitary landfilling is controlled tipping.
☐ 2. Refuse is dumped into a low-lying area.
☐ 3. In the sanitary landfilling, filling of refuse is actually carried out by dividing the entire landfill area into smaller portions called cells.
☒ 4. Waste is stabilised by the aerobic process alone.

Question ID : 630680509489
 Option 1 ID : 6306801991225
 Option 2 ID : 6306801991226
 Option 3 ID : 6306801991228
 Option 4 ID : 6306801991227
 Status : Answered
 Chosen Option : 4

Q.34 Select the option that is appropriate regarding the following two statements labelled

Assertion and Reason.

Assertion: The main disadvantage of drip irrigation is requirement for a high initial investment.

Reason: Drip irrigation requires regular flushing and supervision.

Ans ✓ 1. Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.

✗ 2. Assertion is true, but Reason is false.

✗ 3. Both Assertion and Reason are false.

✗ 4. Both Assertion and Reason are true and Reason is the correct explanation of Assertion.

Question ID : 630680504350

Option 1 ID : 6306801970962

Option 2 ID : 6306801970963

Option 3 ID : 6306801970964

Option 4 ID : 6306801970961

Status : Answered

Chosen Option : 4

Q.35 What are the two types of energy recovery processes?

Ans ✗ 1. Exothermic process and combustion

✗ 2. Endothermic process and pyrolysis

✓ 3. Combustion and pyrolysis

✗ 4. Exothermic process and pyrolysis

Question ID : 630680509490

Option 1 ID : 6306801991230

Option 2 ID : 6306801991232

Option 3 ID : 6306801991229

Option 4 ID : 6306801991231

Status : Answered

Chosen Option : 4

Q.36 The process that uses reclamation of saline soil, in which agricultural land is flooded with water to a depth of about 20-30 cm, is known as _____.

Ans ✗ 1. sub-surface drainage

✓ 2. leaching

✗ 3. surface drainage

✗ 4. washing

Question ID : 630680504311

Option 1 ID : 6306801970807

Option 2 ID : 6306801970806

Option 3 ID : 6306801970805

Option 4 ID : 6306801970808

Status : Answered

Chosen Option : 2

Q.37 The 3R Principle is a concept for _____.

Ans ☒ 1. waste management

☐ 2. sanitation

☐ 3. water treatment

☐ 4. plastic waste treatment

Question ID : 630680509495

Option 1 ID : 6306801991249

Option 2 ID : 6306801991250

Option 3 ID : 6306801991251

Option 4 ID : 6306801991252

Status : Answered

Chosen Option : 1

Q.38 Which of the following types of joints is a temporary joint left between subsequent concreting operations?

Ans ☒ 1. Construction joint

☐ 2. Isolation joint

☐ 3. Expansion joint

☐ 4. Contraction joint

Question ID : 630680340618

Option 1 ID : 6306801324913

Option 2 ID : 6306801324915

Option 3 ID : 6306801324914

Option 4 ID : 6306801324916

Status : Answered

Chosen Option : 1

Q.39 Select the option that is appropriate regarding the following two statements labelled Assertion and Reason.

Assertion: The volume of water stored in a reservoir between the normal pool level and the maximum pool level is known as surcharge storage.

Reason: Surcharge storage is mainly to detain the flood water so that it does not cause any danger on the downstream side.

Ans ☒ 1. Both Assertion and Reason are true and Reason is the correct explanation of Assertion.

☐ 2. Assertion is true, but Reason is false.

☐ 3. Both Assertion and Reason are false.

☐ 4. Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.

Question ID : 630680504336

Option 1 ID : 6306801970905

Option 2 ID : 6306801970907

Option 3 ID : 6306801970908

Option 4 ID : 6306801970906

Status : Answered

Chosen Option : 4

Q.40 Which of the following reinforced concrete structure is commonly used to keep the earth in vertical and stable position at locations where the ground level changes abruptly?

- Ans**
- ☒ 1. Slab
 - ☒ 2. Retaining wall
 - ☒ 3. Column
 - ☒ 4. Beam

Question ID : 630680398047
 Option 1 ID : 6306801552202
 Option 2 ID : 6306801552205
 Option 3 ID : 6306801552203
 Option 4 ID : 6306801552204
 Status : Answered
 Chosen Option : 2

Q.41 What is the major function of a water distribution system?

- Ans**
- ☒ 1. To carry water from the source to the filtration unit
 - ☒ 2. To carry water from the source to the pump house
 - ☒ 3. To carry water from individual homes to the treatment plant
 - ☒ 4. To carry water from the treatment plant to individual homes

Question ID : 630680509471
 Option 1 ID : 6306801991156
 Option 2 ID : 6306801991155
 Option 3 ID : 6306801991154
 Option 4 ID : 6306801991153
 Status : Answered
 Chosen Option : 4

Q.42 The mean depth is calculated by _____ the depths of two consecutive sections.

- Ans**
- ☒ 1. subtract
 - ☒ 2. averaging
 - ☒ 3. adding
 - ☒ 4. multiplying

Question ID : 630680504098
 Option 1 ID : 6306801969954
 Option 2 ID : 6306801969955
 Option 3 ID : 6306801969953
 Option 4 ID : 6306801969956
 Status : Answered
 Chosen Option : 2

Q.43 How is municipal solid waste classified on the basis of its source?

- Ans**
- ☒ 1. Residential refuse and non-residential refuse
 - ☒ 2. Industrial waste and non-industrial waste
 - ☒ 3. House refuse, street refuse and trade refuse
 - ☒ 4. Residential waste and industrial waste

Question ID : 630680509483
 Option 1 ID : 6306801991202
 Option 2 ID : 6306801991203
 Option 3 ID : 6306801991201
 Option 4 ID : 6306801991204
 Status : Answered
 Chosen Option : 4

Q.44 In steel and iron works, dimensions excepting cross-section and thickness of plate shall be measured to nearest _____ m except for reinforcement in reinforced concrete works.

- Ans ☒ 1. 0.001
☒ 2. 0.003
☒ 3. 0.005
☒ 4. 0.002

Question ID : 630680339566
 Option 1 ID : 6306801320785
 Option 2 ID : 6306801320787
 Option 3 ID : 6306801320788
 Option 4 ID : 6306801320786
 Status : Answered
 Chosen Option : 1

Q.45 According to the Mohr-Coulomb failure criterion in soils, which of the following statements are INCORRECT?
 A: Shear strength is attributable to the interlocking of soil particles and cohesion.
 B: Shear strength is only attributable to the internal friction between particles.
 C: The Y-intercept represents friction of soils.
 D: The Mohr-coulomb failure envelope is a straight line.

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

Question ID : 630680181955
 Option 1 ID : 630680705054
 Option 2 ID : 630680705055
 Option 3 ID : 630680705056
 Option 4 ID : 630680705057
 Status : Answered
 Chosen Option : 2

Q.46 What is the interval at which expansion and contraction joints are provided in India for smooth interface laid in winter?

- Ans ☒ 1. 50 to 60 metres
☒ 2. 120 to 140 metres
☒ 3. 90 to 120 metres
☒ 4. 80 to 90 metres

Question ID : 630680509455
 Option 1 ID : 6306801991089
 Option 2 ID : 6306801991092
 Option 3 ID : 6306801991090
 Option 4 ID : 6306801991091
 Status : Answered
 Chosen Option : 1

Q.47 In which type of seasoning is timber immersed in a solution of suitable salt, and then taken out and seasoned in ordinary way?

- Ans ☒ 1. Boiling
☒ 2. Chemical seasoning
☒ 3. Kiln seasoning
☒ 4. Water seasoning

Question ID : 630680509695
Option 1 ID : 6306801991987
Option 2 ID : 6306801991985
Option 3 ID : 6306801991988
Option 4 ID : 6306801991986
Status : Answered
Chosen Option : 2

Q.48 Sodium clay can be used in the core of earthen dams because it has _____ .

- Ans ☒ 1. high permeability
☒ 2. high strength
☒ 3. low porosity
☒ 4. low permeability

Question ID : 630680181879
Option 1 ID : 630680704750
Option 2 ID : 630680704751
Option 3 ID : 630680704753
Option 4 ID : 630680704752
Status : Answered
Chosen Option : 4

Q.49 Which of the following statements is INCORRECT?

Ans Sound level $L = \log_{10} \frac{Q}{Q_0}$ Bels

- ☒ 1. Where Q = sound intensity, Q₀ = reference sound intensity
☒ 2. Measurements of the sound pressure on logarithmic scales are called levels.
☒ 3. The sound pressure is expressed on a logarithmic scale.
☒ 4. The sound pressure of the faintest fastest sound that can be heard by a normal healthy individual is about 10 micropascals.

Question ID : 630680509510
Option 1 ID : 6306801991312
Option 2 ID : 6306801991311
Option 3 ID : 6306801991310
Option 4 ID : 6306801991309
Status : Answered
Chosen Option : 4

Q.50 For construction of WBM roads, which of the following is the correct sequence of operation after spreading the crushed aggregate?

- Ans ☒ 1. Filling voids with screening, application of binding material, dry rolling, wet rolling
☒ 2. Dry rolling, filling voids with screening, wet rolling, application of binding material
☒ 3. Dry rolling, wet rolling, application of binding material, filling voids with screening
☒ 4. Wet rolling, application of binding material, dry rolling, filling voids with screening

Question ID : 630680509458

Option 1 ID : 6306801991103

Option 2 ID : 6306801991102

Option 3 ID : 6306801991101

Option 4 ID : 6306801991104

Status : Answered

Chosen Option : 2

Q.51 A tank has height and width as 4m and 3m, respectively. Determine the total water force, in kN, acting on the bottom of the tank when it is completely filled with water. Take density of water as 1000 kg/m^3 and acceleration due to gravity as 9.81 m/sec^2 (Take the length of tank as 3m.)

- Ans ☒ 1. 400.57
☒ 2. 351.26
☒ 3. 353.16
☒ 4. 345.13

Question ID : 630680506944

Option 1 ID : 6306801981283

Option 2 ID : 6306801981284

Option 3 ID : 6306801981281

Option 4 ID : 6306801981282

Status : Not Answered

Chosen Option : --

Q.52 If the whole circle bearing of a line is zero degrees, then the reduced bearing of the line is in the _____ direction.

- Ans ☒ 1. west
☒ 2. north
☒ 3. south
☒ 4. east

Question ID : 630680382427

Option 1 ID : 6306801490626

Option 2 ID : 6306801490624

Option 3 ID : 6306801490623

Option 4 ID : 6306801490625

Status : Answered

Chosen Option : 2

Q.53 Which of the following statements is true regarding the compensator used in an electronic theodolite?

- Ans
- ☒ 1. It compensates for the effect of tilt of the axis of the bubble tube.
 - ☒ 2. It compensates for the effect of horizontal axis tilt.
 - ☒ 3. It compensates for the effect of vertical axis tilt.
 - ☒ 4. It compensates for the effect of tilt of the line of sight.

Question ID : 630680220234

Option 1 ID : 630680854810

Option 2 ID : 630680854808

Option 3 ID : 630680854807

Option 4 ID : 630680854809

Status : Answered

Chosen Option : 1

Q.54 In the estimation of minimum radius of horizontal circular curve on non-urban highways following IRC : 73 - 1980, using the equation $R = \frac{v^2}{g(e + f)}$, the notation 'f' represents _____.

- Ans
- ☒ 1. Co-efficient of side friction between vehicle tyres and pavement
 - ☒ 2. Vehicle speed
 - ☒ 3. Superelevation ratio
 - ☒ 4. Width of roadway

Question ID : 630680198272

Option 1 ID : 630680769262

Option 2 ID : 630680769260

Option 3 ID : 630680769259

Option 4 ID : 630680769261

Status : Answered

Chosen Option : 1

Q.55 Select the option that is appropriate regarding the following two statements labelled Assertion and Reason.

Assertion: To prevent water logging, intercepting drains can be provided along the course of irrigation canals, in places where the percolation of water is detected.

Reason: The percolating water is intercepted by drains and the water is carried to other natural water courses.

- Ans
- ☒ 1. Assertion is true, but Reason is false.
 - ☒ 2. Both Assertion and Reason are false.
 - ☒ 3. Both Assertion and Reason are true and Reason is the correct explanation of Assertion.
 - ☒ 4. Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.

Question ID : 630680504309

Option 1 ID : 6306801970799

Option 2 ID : 6306801970800

Option 3 ID : 6306801970797

Option 4 ID : 6306801970798

Status : Answered

Chosen Option : 3

Q.56 Calculate the volume of earthwork between two sections 40 m apart, if the mid sectional area between the sections is 15 m^2 .

- Ans
- ☒ 1. 450 m^3
 - ☒ 2. 750 m^3
 - ☒ 3. 500 m^3
 - ☒ 4. 600 m^3

Question ID : 630680504097
 Option 1 ID : 6306801969951
 Option 2 ID : 6306801969952
 Option 3 ID : 6306801969950
 Option 4 ID : 6306801969949
 Status : Answered
 Chosen Option : 4

Q.57 A slab is classified as a one-way slab if _____.
 Where
 L_y = larger dimension of the slab
 L_x = Shorter dimension of the slab

- Ans
- ☒ 1. $\frac{L_y}{L_x} > 2$
 - ☒ 2. $\frac{L_x}{L_y} < 2$
 - ☒ 3. $\frac{L_y}{L_x} < 2$
 - ☒ 4. $\frac{L_x}{L_y} > 2$

Question ID : 630680509673
 Option 1 ID : 6306801991899
 Option 2 ID : 6306801991898
 Option 3 ID : 6306801991897
 Option 4 ID : 6306801991900
 Status : Answered
 Chosen Option : 1

Q.58 As per India Road Congress, what is the carriage way width of a single lane road with raised kerbs?

- Ans
- ☒ 1. 3.75 m
 - ☒ 2. 2 m
 - ☒ 3. 3 m
 - ☒ 4. 2.5 m

Question ID : 630680198265
 Option 1 ID : 630680769232
 Option 2 ID : 630680769231
 Option 3 ID : 630680769233
 Option 4 ID : 630680769234
 Status : Answered
 Chosen Option : 1

Q.59 How does the age of concrete affect its compressive strength?, consider the age limit as 28 days with continued curing.

- Ans
- ☒ 1. Compressive strength increases upto an age 14 days and continues to decrease on further curing
 - ☒ 2. Compressive strength increases as the age of concrete increases
 - ☐ 3. Age of concrete doesnot affect the compressive strength of concrete
 - ☐ 4. Compressive strength decreases upto an age 7 days and continues to decrease on further curing

Question ID : 630680191312
 Option 1 ID : 630680741889
 Option 2 ID : 630680741892
 Option 3 ID : 630680741891
 Option 4 ID : 630680741890
 Status : Answered
 Chosen Option : 2

Q.60 In the case of Atterberg limits of a soil, the shrinkage index of the soil will be equal to :

- Ans
- ☒ 1. the difference between the plastic limit and shrinkage limit
 - ☐ 2. the sum of shrinkage ratio and flow index
 - ☐ 3. the difference between the liquid limit and plastic limit
 - ☐ 4. the difference between the liquid limit and shrinkage limit

Question ID : 630680504531
 Option 1 ID : 6306801971685
 Option 2 ID : 6306801971688
 Option 3 ID : 6306801971687
 Option 4 ID : 6306801971686
 Status : Answered
 Chosen Option : 1

Q.61 For a linearly elastic, homogeneous, and isotropic material having modulus of rigidity- G and modulus of elasticity- E, the range of G is given as _____.

- Ans
- ☐ 1. 0 to $\frac{E}{3}$
 - ☐ 2. 0 to $\frac{E}{2}$
 - ☐ 3. $\frac{E}{2}$ to $\frac{E}{4}$
 - ☒ 4. $\frac{E}{3}$ to $\frac{E}{2}$

Question ID : 630680509116
 Option 1 ID : 6306801989759
 Option 2 ID : 6306801989762
 Option 3 ID : 6306801989761
 Option 4 ID : 6306801989760
 Status : Answered
 Chosen Option : 2

Q.62 Which of the following estimate is done to account the costs required to keep the built structure in working and safe condition?

- Ans
- ☒ 1. Complete estimate
 - ☒ 2. Quantity estimate
 - ☒ 3. Repair and maintenance estimate
 - ☒ 4. Revised estimate

Question ID : 630680504062

Option 1 ID : 6306801969809

Option 2 ID : 6306801969810

Option 3 ID : 6306801969812

Option 4 ID : 6306801969811

Status : Answered

Chosen Option : 3

Q.63 Which of the given option provides the effective width of an isolated T- beam of RCC as per IS 456-2000? Assume - b_f = effective width of flange, I_0 = distance between points of zero moments in the beam, b_w = breadth of the web, D_f = thickness of flange and b = actual width of the flange.

- Ans
- ☒ 1. $[0.5 I_0 / \{(\frac{I_0}{b}) + 4\}] + b_w$
 - ☒ 2. $(\frac{I_0}{12}) + b_w + 3 D_f$
 - ☒ 3. $(\frac{I_0}{6}) + b_w + 6 D_f$
 - ☒ 4. $[I_0 / \{(\frac{I_0}{b}) + 4\}] + b_w$

Question ID : 630680509656

Option 1 ID : 6306801991830

Option 2 ID : 6306801991832

Option 3 ID : 6306801991831

Option 4 ID : 6306801991829

Status : Answered

Chosen Option : 4

Q.64 Select the option that is appropriate regarding the following two statements labelled Assertion and Reason.

Assertion: Due to the inherent nature of various parameters involved in the process, the yield from a catchment is a random variable.

Reason: The yield from a catchment is the end-product of various processes such as precipitation, infiltration and evapotranspiration operating on the catchment.

- Ans
- ☒ 1. Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.
 - ☒ 2. Both Assertion and Reason are true and Reason is the correct explanation of Assertion.
 - ☒ 3. Both Assertion and Reason are false.
 - ☒ 4. Assertion is true, but Reason is false.

Question ID : 630680504296

Option 1 ID : 6306801970746

Option 2 ID : 6306801970745

Option 3 ID : 6306801970748

Option 4 ID : 6306801970747

Status : Answered

Chosen Option : 1

Q.65 If Reynolds number is less than 500, the flow is said to be laminar for the:

- Ans ☒ 1. free surface flow
☒ 2. flow through soil
☒ 3. flow between parallel plates
☒ 4. pipe flow

Question ID : 630680506967
 Option 1 ID : 6306801981374
 Option 2 ID : 6306801981376
 Option 3 ID : 6306801981375
 Option 4 ID : 6306801981373
 Status : Answered
 Chosen Option : 1

Q.66 Calculate the slenderness ratio and classify the column type in accordance with IS 456 : 2000, if the diameter of column is 300 mm and effective length 3m.

- Ans ☒ 1. 8; long column
☒ 2. 13; long column
☒ 3. 10; short column
☒ 4. 15; short column

Question ID : 630680377290
 Option 1 ID : 6306801470226
 Option 2 ID : 6306801470224
 Option 3 ID : 6306801470223
 Option 4 ID : 6306801470225
 Status : Answered
 Chosen Option : 3

Q.67 Match the following flood control works with their functions.

Flood Control Work	Function
A. Check dams	1. To protect surrounding areas of a river from floods
B. Terrace bunds	2. To reduce the runoff velocity in stream channels.
C. Levees	3. To arrest sediments and the surface runoff in agricultural lands.

- Ans ☒ 1. A-1, B-2, C-3
☒ 2. A-1, B-3, C-2
☒ 3. A-2, B-3, C-1
☒ 4. A-2, B-1, C-3

Question ID : 630680504313
 Option 1 ID : 6306801970816
 Option 2 ID : 6306801970813
 Option 3 ID : 6306801970815
 Option 4 ID : 6306801970814
 Status : Answered
 Chosen Option : 3

Q.68 Which of the following is NOT the remedial measure to prevent water hammer through pipes?

- Ans
- ☒ 1. Installing water hammer arrestors
 - ☒ 2. Drain your pipes and refill them to create new air chambers
 - ☒ 3. Creating vacuum by closing valve
 - ☒ 4. Tighten mounting straps to hold pipes in place

Question ID : 630680427628
 Option 1 ID : 6306801668578
 Option 2 ID : 6306801668577
 Option 3 ID : 6306801668580
 Option 4 ID : 6306801668579
 Status : Answered
 Chosen Option : 2

Q.69 Which of the following tests is commonly used to measure the softening point of bitumen?

- Ans
- ☒ 1. Flash point test
 - ☒ 2. Ductility test
 - ☒ 3. Penetration test
 - ☒ 4. Ring and ball test

Question ID : 630680357655
 Option 1 ID : 6306801392611
 Option 2 ID : 6306801392609
 Option 3 ID : 6306801392610
 Option 4 ID : 6306801392612
 Status : Answered
 Chosen Option : 4

Q.70 As per the Environment Protection Act, 1986, what are the permitted noise limits (in decibel) for the silence zone during day time and night time?

- Ans
- ☒ 1. 50 and 60, respectively
 - ☒ 2. 40 and 30, respectively
 - ☒ 3. 50 and 40, respectively
 - ☒ 4. 60 and 50, respectively

Question ID : 630680509509
 Option 1 ID : 6306801991308
 Option 2 ID : 6306801991307
 Option 3 ID : 6306801991305
 Option 4 ID : 6306801991306
 Status : Answered
 Chosen Option : 3

Q.71 Consider the following statements with respect to cubical content method.

- I. This is a preliminary estimate.
II. This is an approximate estimate.
Which of the following options is true?

- Ans ☒ 1. Both statements I and II are true
☐ 2. Only statement I is true
☐ 3. Both statements I and II are false
☐ 4. Only statement II is true

Question ID : 630680504123
Option 1 ID : 6306801970055
Option 2 ID : 6306801970053
Option 3 ID : 6306801970056
Option 4 ID : 6306801970054
Status : Answered
Chosen Option : 1

Q.72 Which property of borosilicate glass makes it suitable for thermal shock resistance ?

- Ans ☐ 1. High refractive index
☒ 2. Low thermal expansion coefficient.
☐ 3. High transparency
☐ 4. Low density

Question ID : 630680357632
Option 1 ID : 6306801392520
Option 2 ID : 6306801392519
Option 3 ID : 6306801392517
Option 4 ID : 6306801392518
Status : Answered
Chosen Option : 2

Q.73 Which of the following statements is INCORRECT?

- Ans ☐ 1. Activated carbon is a de-chlorinating agent.
☒ 2. Flocculation is a chemical technique that is directed towards the destabilisation of charged particles and the coagulation promotes the agglomeration of stabilised particles.
☐ 3. In plain sedimentation tanks, the removal of particles is independent of the depth of the sedimentation tank.
☐ 4. Filters purify water through the following four different processes: mechanical straining, flocculation and sedimentation, biological metabolism and electrolyte charges charging.

Question ID : 630680509462
Option 1 ID : 6306801991120
Option 2 ID : 6306801991118
Option 3 ID : 6306801991117
Option 4 ID : 6306801991119
Status : Answered
Chosen Option : 4

Q.74 Identify the INCORRECT statement with respect to specifications on the partial safety factors for material strength, and are used in limit state design of RC structures

- Ans ☒ 1. A higher partial safety factor has been assigned to concrete compared with reinforcing steel under the ultimate limit state.
- ☒ 2. A partial safety factor '1' is used for concrete under serviceability limit state
- ☒ 3. A partial safety factor '1.15' is used for steel under serviceability limit state
- ☒ 4. A partial safety factor 1.5 is used for concrete under ultimate limit state

Question ID : 630680326654

Option 1 ID : 6306801270693

Option 2 ID : 6306801270694

Option 3 ID : 6306801270695

Option 4 ID : 6306801270696

Status : Answered

Chosen Option : 2

Q.75 As per IRC standards, an octagon with white border and red background is a _____ sign.

- Ans ☒ 1. accident prone area
- ☒ 2. stop
- ☒ 3. no parking
- ☒ 4. yield

Question ID : 630680509075

Option 1 ID : 6306801989598

Option 2 ID : 6306801989595

Option 3 ID : 6306801989597

Option 4 ID : 6306801989596

Status : Answered

Chosen Option : 2

Q.76 For an irrigation project, Culturable Command area (CCA) =

- Ans ☒ 1. Culturable Command Area (CCA) = Gross Command Area (GCA)
- ☒ 2. Culturable Command Area (CCA) = Gross Command Area (GCA) + Unculturable area
- ☒ 3. Culturable Command Area (CCA) = Gross Command Area (GCA) - Unculturable area
- ☒ 4. Culturable Command Area (CCA) = Unculturable area - Gross Command Area (GCA)

Question ID : 630680205229

Option 1 ID : 630680795777

Option 2 ID : 630680795778

Option 3 ID : 630680795776

Option 4 ID : 630680795775

Status : Answered

Chosen Option : 3

Q.77 Select the INCORRECT statement regarding purification of water.

- Ans ☒ 1. Screening is done before plain sedimentation.
- ☒ 2. Plain sedimentation is also known as type-2 settling.
- ☒ 3. Sedimentation aided with coagulation is better than plain sedimentation.
- ☒ 4. Type-1 settling involves Stock's law.

Question ID : 630680509522
Option 1 ID : 6306801991357
Option 2 ID : 6306801991358
Option 3 ID : 6306801991359
Option 4 ID : 6306801991360
Status : Answered
Chosen Option : 2

Q.78 Which of the following methods is used for designing a turnout taking off from a straight railway track?

- Ans ☒ 1. Coulomb's method
- ☒ 2. Coles method
- ☒ 3. Westergaard's method
- ☒ 4. Rankine's method

Question ID : 630680191637
Option 1 ID : 630680743170
Option 2 ID : 630680743169
Option 3 ID : 630680743172
Option 4 ID : 630680743171
Status : Answered
Chosen Option : 2

Q.79 Which of the given condition is ensured in RC members due to the proper bond between reinforcing steel and surrounding concrete?

- Ans ☒ 1. Force compatibility
- ☒ 2. Stress compatibility
- ☒ 3. Bending compatibility
- ☒ 4. Strain compatibility

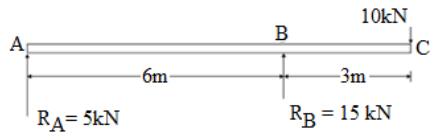
Question ID : 630680509651
Option 1 ID : 6306801991811
Option 2 ID : 6306801991810
Option 3 ID : 6306801991812
Option 4 ID : 6306801991809
Status : Answered
Chosen Option : 4

Q.80 Which of the following statements about the circular sewer section is INCORRECT?

- Ans ☒ 1. It offers the maximum cross-sectional area for the amount of materials used in walls.
- ☒ 2. Under the full-flow condition, a circular sewer has the maximum hydraulic radius.
- ☒ 3. It has low structural stability.
- ☒ 4. Circular sewers are easy to construct.

Question ID : 630680509478
Option 1 ID : 6306801991184
Option 2 ID : 6306801991182
Option 3 ID : 6306801991183
Option 4 ID : 6306801991181
Status : Answered
Chosen Option : 1

- Q.81 $EIy = -\frac{5}{6}x^3 + 0 * x + \frac{5}{2}(x - 6)^3$ is the equation of deflection obtained by using Macaulay's method for the beam shown in the following figure. Find the slope at A. Given $EI = 10 \times 10^{13} \text{ Nmm}^2$.
Where x = horizontal distance measured from support A



- Ans ☒ 1. 0.00015 radians
☒ 2. 0.0003 radians
☒ 3. 0.003 radians
☒ 4. 0.0015 radians

Question ID : 630680427931
 Option 1 ID : 6306801669770
 Option 2 ID : 6306801669768
 Option 3 ID : 6306801669769
 Option 4 ID : 6306801669771
 Status : Not Answered
 Chosen Option : --

- Q.82 During the alignment of a road by using direct ranging, the surveyor raises both the hands above his head and then, brings them down as a signal for his assistant. The correct action taken by his assistant would be _____.

- Ans ☒ 1. considering that the ranging rod is at correct position
☒ 2. moving the ranging rod forward along the same line
☒ 3. moving the ranging rod backward along the same line
☒ 4. Lift the ranging rod above the knee level

Question ID : 630680506220
 Option 1 ID : 6306801978398
 Option 2 ID : 6306801978399
 Option 3 ID : 6306801978400
 Option 4 ID : 6306801978397
 Status : Answered
 Chosen Option : 1

- Q.83 Which of the following is NOT a warning sign?
 i. Pedestrian Crossing
 ii. Men at Work
 iii. School
 iv. Truck Prohibited
 v. No stopping

- Ans ☒ 1. Both i and iv
☒ 2. Both ii and v
☒ 3. Both ii and iii
☒ 4. Both iv and v

Question ID : 630680509074
 Option 1 ID : 6306801989592
 Option 2 ID : 6306801989594
 Option 3 ID : 6306801989593
 Option 4 ID : 6306801989591
 Status : Answered
 Chosen Option : 2

Q.84 Which of the following hydrocarbons has the lowest carbon content?

- Ans ☒ 1. Tar
☒ 2. Bitumen
☒ 3. Methane
☒ 4. Asphalt

Question ID : 630680509704
 Option 1 ID : 6306801992023
 Option 2 ID : 6306801992022
 Option 3 ID : 6306801992024
 Option 4 ID : 6306801992021
 Status : Answered
 Chosen Option : 3

Q.85 What is the function of a non-return valve?

- Ans ☒ 1. Blocks the flow of fluid in all directions in a pipe flow system
☒ 2. Allows flow of liquid in a direction opposite to the pumping direction of liquid
☒ 3. Allow the flow of liquid in both upward and downward direction in a pipe flow system
☒ 4. Allow the flow of liquid in one direction and prevents it from flowing back in opposite direction in a pipe flow system

Question ID : 630680385088
 Option 1 ID : 6306801501240
 Option 2 ID : 6306801501241
 Option 3 ID : 6306801501238
 Option 4 ID : 6306801501239
 Status : Answered
 Chosen Option : 4

Q.86 In order to allow the seepage water to escape without dislocating the soil particles a/an _____ is provided at the downstream end of the impervious floor of a weir.

- Ans ☒ 1. launching apron
☒ 2. graded filter
☒ 3. inverted filter
☒ 4. pervious floor

Question ID : 630680504321
 Option 1 ID : 6306801970847
 Option 2 ID : 6306801970845
 Option 3 ID : 6306801970846
 Option 4 ID : 6306801970848
 Status : Answered
 Chosen Option : 4

Q.87 In regard to the resection method of plane table survey, the term 'resector' refers to the _____.

- Ans ☒ 1. rays drawn from the un-plotted location of the station to the un-plotted location of the points
- ☒ 2. rays drawn from the known location of the station to the known location of the points
- ☒ 3. rays drawn from the un-plotted location of the station to the known location of the points
- ☒ 4. rays drawn from the known location of the station to the un-plotted location of the points

Question ID : 630680506206

Option 1 ID : 6306801978344

Option 2 ID : 6306801978343

Option 3 ID : 6306801978341

Option 4 ID : 6306801978342

Status : Answered

Chosen Option : 4

Q.88 When the instrument is stationed near point P, the staff readings at point P and Q are 1.800 m and 2.600 m, respectively. When the instrument is stationed near point Q, the staff readings at P and Q are 1.500 m and 2.400 m, respectively. R.L. of point P is 100 m. Find the R.L. of point Q.

- Ans ☒ 1. 98.5 m
- ☒ 2. 99.15 m
- ☒ 3. 100.85 m
- ☒ 4. 97.4 m

Question ID : 630680506241

Option 1 ID : 6306801978483

Option 2 ID : 6306801978481

Option 3 ID : 6306801978482

Option 4 ID : 6306801978484

Status : Answered

Chosen Option : 2

Q.89 The fineness of a cement sample is determined by using _____ method.

- Ans ☒ 1. universal testing
- ☒ 2. slump cone
- ☒ 3. Le Chatelier
- ☒ 4. Blaine's air permeability

Question ID : 630680199415

Option 1 ID : 630680773301

Option 2 ID : 630680773302

Option 3 ID : 630680773300

Option 4 ID : 630680773299

Status : Answered

Chosen Option : 4

Q.90 Select the option that is appropriate regarding the following two statements labelled Assertion and Reason.
Assertion: In lined canals, the increased velocity eliminates the possibility of silting in the canal bed.
Reason: Canal lining provides a smooth and stable surface and thus, the velocity of the flow can be increased.

- Ans** ☒ 1. Both Assertion and Reason are false.
☒ 2. Both Assertion and Reason are true and Reason is the correct explanation of Assertion.
☒ 3. Assertion is true, but Reason is false.
☒ 4. Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.

Question ID : 630680504334
Option 1 ID : 6306801970900
Option 2 ID : 6306801970897
Option 3 ID : 6306801970899
Option 4 ID : 6306801970898
Status : Answered
Chosen Option : 2

Q.91 In levelling, _____ is also called minus sight.

- Ans** ☒ 1. Inverted intermediate sight
☒ 2. back sight
☒ 3. intermediate sight
☒ 4. fore sight

Question ID : 630680506230
Option 1 ID : 6306801978440
Option 2 ID : 6306801978437
Option 3 ID : 6306801978439
Option 4 ID : 6306801978438
Status : Answered
Chosen Option : 1

Q.92 A 15 cm diameter orifice discharging from a tank issues out a jet of diameter 12.75 cm diameter at a vena contracta. The coefficient of contraction is _____.

- Ans** ☒ 1. 0.62
☒ 2. 0.85
☒ 3. 0.682
☒ 4. 0.722

Question ID : 630680506985
Option 1 ID : 6306801981445
Option 2 ID : 6306801981446
Option 3 ID : 6306801981448
Option 4 ID : 6306801981447
Status : Answered
Chosen Option : 2

Q.93 In a circular tube of diameter 100 mm and length 15 m with laminar flow, the Darcy friction factor is estimated to be 0.05. Calculate the Reynolds number.

- Ans ☒ 1. 900
☒ 2. 1280
☒ 3. 2500
☒ 4. 1000

Question ID : 630680506965
 Option 1 ID : 6306801981368
 Option 2 ID : 6306801981365
 Option 3 ID : 6306801981367
 Option 4 ID : 6306801981366
 Status : Answered
 Chosen Option : 2

Q.94 Find the effective length of an isolated cantilever RCC beam as per IS 456-2000, where the length from the free end to the face of support is 1 m, the effective depth of the beam, is 400 mm and the width of support is 300 mm.

- Ans ☒ 1. 1.4 m
☒ 2. 1.15 m
☒ 3. 1.3 m
☒ 4. 1.2 m

Question ID : 630680509660
 Option 1 ID : 6306801991847
 Option 2 ID : 6306801991846
 Option 3 ID : 6306801991848
 Option 4 ID : 6306801991845
 Status : Answered
 Chosen Option : 4

Q.95 As per IS 10262 : 2019, what is the approximate amount of entrapped air to be expected in normal (non-air-entrained) concrete, when 10 mm Nominal Maximum Size of Aggregate is used in making concrete?

- Ans ☒ 1. 1.5
☒ 2. 1.0
☒ 3. 0.5
☒ 4. 2.0

Question ID : 630680381561
 Option 1 ID : 6306801487176
 Option 2 ID : 6306801487175
 Option 3 ID : 6306801487177
 Option 4 ID : 6306801487178
 Status : Answered
 Chosen Option : 1

Q.96 Which method is used for the preparation of detailed estimate?

- Ans ☒ 1. Bay method
- ☒ 2. Unit quantity method
- ☒ 3. Cubic content method
- ☒ 4. Square metre method

Question ID : 630680504128
Option 1 ID : 6306801970076
Option 2 ID : 6306801970073
Option 3 ID : 6306801970075
Option 4 ID : 6306801970074
Status : Answered
Chosen Option : 2

Q.97 In order to have exactly zero tensile stress at one extreme fibre of a solid circular section (dia - D) subjected to combined direct (compressive) and bending stresses, a normal point load is needed to be placed _____.

- Ans ☒ 1. at a radial distance D/6 from the centre
- ☒ 2. at a radial distance D/4 from the centre
- ☒ 3. beyond a distance of 3D/8 measured towards the core from the periphery
- ☒ 4. at a radial distance D/3 from the centre

Question ID : 630680191815
Option 1 ID : 630680743862
Option 2 ID : 630680743863
Option 3 ID : 630680743864
Option 4 ID : 630680743861
Status : Answered
Chosen Option : 2

Q.98 Which of the given options represents a doubly reinforced beam?

- Ans ☒ 1. Single layer of reinforcement in only compression face
- ☒ 2. A least Single layer of reinforcement in both tension and compression face
- ☒ 3. Two layers of reinforcement in only tension face
- ☒ 4. Double layer of reinforcement in only compression face

Question ID : 630680509665
Option 1 ID : 6306801991866
Option 2 ID : 6306801991867
Option 3 ID : 6306801991865
Option 4 ID : 6306801991868
Status : Answered
Chosen Option : 2

Q.99 The shear stress at a point in a liquid is found to be 0.02 N/m^2 . The velocity gradient at this point is 0.20 s^{-1} . What will be the viscosity of the liquid (in Poise)?

- Ans ☒ 1. 0.4
- ☒ 2. 10
- ☒ 3. 1
- ☒ 4. 2

Question ID : 630680506950
Option 1 ID : 6306801981308
Option 2 ID : 6306801981307
Option 3 ID : 6306801981305
Option 4 ID : 6306801981306
Status : Answered
Chosen Option : 3

Q.100 Which of the following test apparatus is used to determine the temperature susceptibility of bitumen?

- Ans ☒ 1. Tar viscometer
- ☒ 2. Ring and ball apparatus
- ☒ 3. Penetrometer
- ☒ 4. Pensky Marten test apparatus

Question ID : 630680509692

Option 1 ID : 6306801991974

Option 2 ID : 6306801991973

Option 3 ID : 6306801991975

Option 4 ID : 6306801991976

Status : Answered

Chosen Option : 4

