

Junior Engineer Civil Mechanical and Electrical Examination 2024 Paper I

Roll Number	
Candidate Name	
Venue Name	
Exam Date	06/06/2024
Exam Time	5:00 PM - 7:00 PM
Subject	Junior Engineer 2024 Civil Paper I

Section : General Intelligence and Reasoning

Q.1 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.)

Pressure : Pascal

- Ans

✔ 1. Work : Joule

✘ 2. Momentum : Newton

✘ 3. Force : Watt

✘ 4. Electric Current : Kelvin

Question ID : 630680565341

Option 1 ID : 6306802210339

Option 2 ID : 6306802210340

Option 3 ID : 6306802210338

Option 4 ID : 6306802210341

Status : Answered

Chosen Option : 3

Q.2 Select the correct option that indicates the arrangement of the following words in a logical and meaningful order (in terms of food chain).

1. Grass

2. Grasshopper

3. Frog

4. Snake

5. Eagle

- Ans

✔ 1. 1, 2, 3, 4, 5

✘ 2. 2, 3, 4, 5, 1

✘ 3. 3, 4, 5, 2, 1

✘ 4. 2, 4, 3, 1, 5
- Question ID : 630680395048

Option 1 ID : 6306801540460

Option 2 ID : 6306801540461

Option 3 ID : 6306801540462

Option 4 ID : 6306801540463

Status : Answered

Chosen Option : 1

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Q.3 CEG is related to KMO in a certain way based on the English alphabetical order. In the same way, GIK is related to OQS. To which of the following is MOQ related, following the same logic?

- Ans
- ☒ 1. LNP
 - ☒ 2. BDF
 - ☒ 3. UWY
 - ☒ 4. IKM

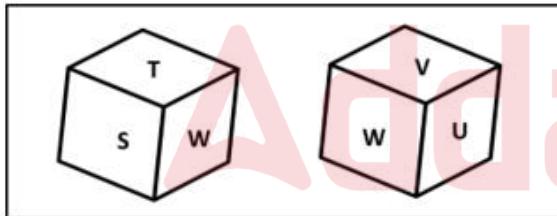
Question ID : 630680375831
 Option 1 ID : 6306801464397
 Option 2 ID : 6306801464395
 Option 3 ID : 6306801464398
 Option 4 ID : 6306801464396
 Status : Answered
 Chosen Option : 3

Q.4 In a certain code language, 'he is right' is coded as 'ab yo km' and 'right now here' is coded as 'km gh bd'. How is 'right' coded in the given language?

- Ans
- ☒ 1. gh
 - ☒ 2. yo
 - ☒ 3. ab
 - ☒ 4. km

Question ID : 630680377685
 Option 1 ID : 6306801471802
 Option 2 ID : 6306801471800
 Option 3 ID : 6306801471799
 Option 4 ID : 6306801471801
 Status : Answered
 Chosen Option : 4

Q.5 A dice has its faces marked by letters R, S, T, U, V and W. Two positions of the same dice are shown below. Which face is opposite to face R?



- Ans
- ☒ 1. V
 - ☒ 2. T
 - ☒ 3. W
 - ☒ 4. S

Question ID : 630680524641
 Option 1 ID : 6306802050666
 Option 2 ID : 6306802050663
 Option 3 ID : 6306802050665
 Option 4 ID : 6306802050664
 Status : Answered
 Chosen Option : 3

Q.6 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.)

(6, 18, 123)

(17, 9, 168)

Ans ☒ 1. (18, 5, 100)

☒ 2. (14, 8, 127)

☒ 3. (21, 7, 147)

☒ 4. (20, 6, 94)

Question ID : 630680378065

Option 1 ID : 6306801473321

Option 2 ID : 6306801473320

Option 3 ID : 6306801473319

Option 4 ID : 6306801473322

Status : Answered

Chosen Option : 3

Q.7 In a certain code language, 'FISH' is coded as '7913' and 'SALE' is coded as '8641'. What is the code for 'S' in the given language?

Ans ☒ 1. 3

☒ 2. 8

☒ 3. 4

☒ 4. 1

Question ID : 630680376550

Option 1 ID : 6306801467268

Option 2 ID : 6306801467270

Option 3 ID : 6306801467269

Option 4 ID : 6306801467267

Status : Answered

Chosen Option : 4

Q.8 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
LFC, IDZ, FBW, CZT, ZXQ, ?

Ans ☒ 1. UWM

☒ 2. WVN

☒ 3. XZR

☒ 4. XYP

Question ID : 630680379362

Option 1 ID : 6306801478494

Option 2 ID : 6306801478491

Option 3 ID : 6306801478493

Option 4 ID : 6306801478492

Status : Answered

Chosen Option : 2

Q.9 Seven friends S, Q, K, P, E, C and N have different ages. S is older than N but younger than E. K is older than P. Q is younger than E. C is younger than K. N is older than P. C is older than P. K is younger than Q. Which among them is the oldest?

- Ans ☒ 1. E
☒ 2. K
☒ 3. Q
☒ 4. N

Question ID : 630680519093
Option 1 ID : 6306802028834
Option 2 ID : 6306802028832
Option 3 ID : 6306802028833
Option 4 ID : 6306802028835
Status : Answered
Chosen Option : 1

Q.10 What will come in place of the question mark (?) in the following equation if '+' and '-' are interchanged and '×' and '÷' are interchanged?

$$42 \times 6 + 5 \div 8 - 34 = ?$$

- Ans ☒ 1. 4
☒ 2. 5
☒ 3. 3
☒ 4. 1

Question ID : 630680376972
Option 1 ID : 6306801468953
Option 2 ID : 6306801468952
Option 3 ID : 6306801468951
Option 4 ID : 6306801468954
Status : Answered
Chosen Option : 4

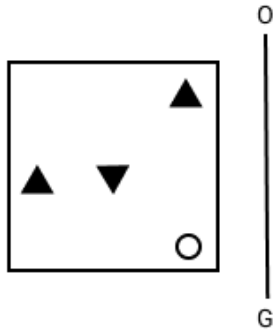
Q.11 If '+' means 'subtraction', '-' means 'division', '÷' means 'multiplication' and '×' means 'addition', then what will come in place of the question mark (?) in the following equation?

$$30 - 5 \times 2960 + 74 \div 4 = ?$$

- Ans ☒ 1. 2671
☒ 2. 2670
☒ 3. 2673
☒ 4. 2674

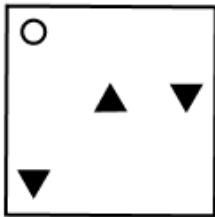
Question ID : 630680549694
Option 1 ID : 6306802149208
Option 2 ID : 6306802149209
Option 3 ID : 6306802149210
Option 4 ID : 6306802149211
Status : Answered
Chosen Option : 2

Q.12 Select the correct mirror image of the given figure when the mirror is placed at OG as shown below.

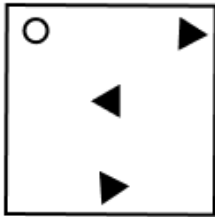


Ans

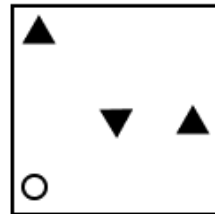
✗ 1.



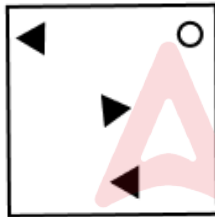
✗ 2.



✓ 3.



✗ 4.



Question ID : 630680462561

Option 1 ID : 6306801806447

Option 2 ID : 6306801806448

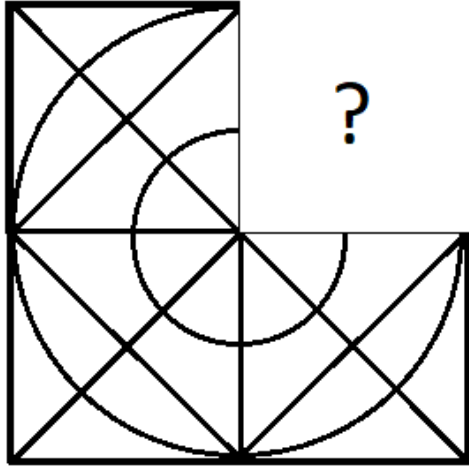
Option 3 ID : 6306801806449

Option 4 ID : 6306801806450

Status : Answered

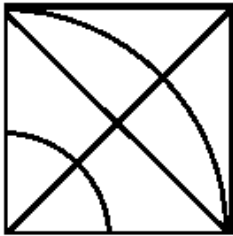
Chosen Option : 3

Q.13 Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern.

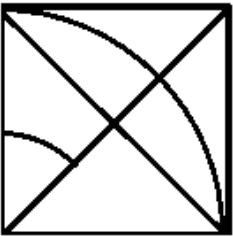


Ans

✓ 1.



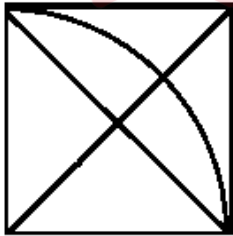
✗ 2.



✗ 3.



✗ 4.



Question ID : 630680525512

Option 1 ID : 6306802054133

Option 2 ID : 6306802054135

Option 3 ID : 6306802054132

Option 4 ID : 6306802054134

Status : Answered

Chosen Option : 1

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

- Ans
- ☒ 1. YOU
 - ☒ 2. ZUM
 - ☒ 3. XVJ
 - ☒ 4. YWN

Question ID : 630680386937
Option 1 ID : 6306801508461
Option 2 ID : 6306801508459
Option 3 ID : 6306801508460
Option 4 ID : 6306801508458
Status : Answered
Chosen Option : 3

Q.15 PTOS is related to NRMQ in a certain way based on the English alphabetical order. In the same way, JNIM is related to HLGK. To which of the following is QUPT related, following the same logic?

- Ans
- ☒ 1. SORN
 - ☒ 2. SONR
 - ☒ 3. OSNR
 - ☒ 4. OSRN

Question ID : 630680376570
Option 1 ID : 6306801467347
Option 2 ID : 6306801467348
Option 3 ID : 6306801467349
Option 4 ID : 6306801467350
Status : Answered
Chosen Option : 3

Q.16 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- Ans
- ☒ 1. M 7 % Y G
 - ☒ 2. W 7 % Y G
 - ☒ 3. M 7 % Y G
 - ☒ 4. M 7 % Y G

Question ID : 630680456653
Option 1 ID : 6306801783575
Option 2 ID : 6306801783576
Option 3 ID : 6306801783577
Option 4 ID : 6306801783578
Status : Answered
Chosen Option : 2

Q.17 What should come in place of the question mark (?) in the given series based on the English alphabetical order
PRT, LNP, HJL, DFH, ?

Ans ☒ 1. ZBD

☐ 2. YBD

☐ 3. ZAD

☐ 4. YAD

Question ID : 630680376903

Option 1 ID : 6306801468676

Option 2 ID : 6306801468678

Option 3 ID : 6306801468675

Option 4 ID : 6306801468677

Status : Answered

Chosen Option : 1

Q.18 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.)

(16, 9, 14)

(33, 11, 44)

Ans ☐ 1. (22, 6, 30)

☒ 2. (18, 7, 22)

☐ 3. (17, 4, 22)

☐ 4. (41, 23, 25)

Question ID : 630680376815

Option 1 ID : 6306801468324

Option 2 ID : 6306801468323

Option 3 ID : 6306801468326

Option 4 ID : 6306801468325

Status : Answered

Chosen Option : 2

Q.19 What will come in place of the question mark (?) in the following equation if '+' and '-' are interchanged and 'x' and '÷' are interchanged?
 $55 \times 5 - 3 \div 6 + 12 = ?$

Ans ☐ 1. 21

☐ 2. 15

☒ 3. 17

☐ 4. 13

Question ID : 630680376797

Option 1 ID : 6306801468254

Option 2 ID : 6306801468252

Option 3 ID : 6306801468253

Option 4 ID : 6306801468251

Status : Answered

Chosen Option : 3

Q.20 Dilip starts from point A and drives 6 km towards the North. He then takes a right turn and drives 2 km. He then takes a left turn and drives 3 km. He then takes a left turn and drives 7 km. He takes a final left turn and drives 9 km to reach point B. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified)

- Ans ☒ 1. 5 km East
☒ 2. 3 km East
☒ 3. 5 km West
☒ 4. 6 km West

Question ID : 630680376854
Option 1 ID : 6306801468481
Option 2 ID : 6306801468479
Option 3 ID : 6306801468482
Option 4 ID : 6306801468480
Status : Answered
Chosen Option : 1

Q.21 The position(s) of how many letters will remain unchanged if each of the letters in the word PLANKED is arranged in the English alphabetical order?

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

Question ID : 630680396642
Option 1 ID : 6306801546660
Option 2 ID : 6306801546661
Option 3 ID : 6306801546662
Option 4 ID : 6306801546663
Status : Answered
Chosen Option : 2

Q.22 P, Q, R, S, T, U and V are sitting around a circular table facing the centre (not necessarily in the same order). P is sitting to the immediate left of V. R is sitting to the immediate right of T. U is sitting to the immediate left of P and immediate right of S. Q is sitting to the immediate left of S. T is sitting to the immediate right of V. Who is sitting to the immediate left of Q?

- Ans ☒ 1. P
☒ 2. R
☒ 3. V
☒ 4. U

Question ID : 630680377011
Option 1 ID : 6306801469108
Option 2 ID : 6306801469109
Option 3 ID : 6306801469110
Option 4 ID : 6306801469107
Status : Answered
Chosen Option : 2

Q.23 Select the option in which the numbers share the same relationship as that shared by the given number triads.

9-5-1

14-10-6

(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. 21-16-14

☒ 2. 25-21-19

☒ 3. 30-28-26

☒ 4. 20-16-12

Question ID : 630680387175

Option 1 ID : 6306801509395

Option 2 ID : 6306801509396

Option 3 ID : 6306801509397

Option 4 ID : 6306801509394

Status : Answered

Chosen Option : 4

Q.24 CE 13 is related to GI 19 in a certain way. In the same way, KM 19 is related to OQ 25. To which of the following is SU 17 related, following the same logic?

Ans ☒ 1. YZ 23

☒ 2. LI 23

☒ 3. WY 23

☒ 4. MP 21

Question ID : 630680376956

Option 1 ID : 6306801468887

Option 2 ID : 6306801468890

Option 3 ID : 6306801468888

Option 4 ID : 6306801468889

Status : Answered

Chosen Option : 3

Q.25 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 son of B'
A ÷ B means 'A is the father of B'
Based on the above, how is E related to M if 'E % F ÷ G - H @ M'?

Ans ☒ 1. Mother's father

☒ 2. Mother's brother

☒ 3. Brother

☒ 4. Father

Question ID : 630680376958

Option 1 ID : 6306801468896

Option 2 ID : 6306801468897

Option 3 ID : 6306801468898

Option 4 ID : 6306801468895

Status : Answered

Chosen Option : 2

Q.26 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
VUR, TSP, RQN, POL, ?

- Ans
- ☒ 1. MLI
 - ☒ 2. NMK
 - ☒ 3. NMJ
 - ☒ 4. MLK

Question ID : 630680379934
Option 1 ID : 6306801480771
Option 2 ID : 6306801480774
Option 3 ID : 6306801480772
Option 4 ID : 6306801480773
Status : Answered
Chosen Option : 3

Q.27 Select the correct option that indicates the arrangement of the following words in a logical and meaningful order.

1. State
2. Village
3. District
4. Nation
5. House

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

Question ID : 630680565837
Option 1 ID : 6306802212300
Option 2 ID : 6306802212301
Option 3 ID : 6306802212303
Option 4 ID : 6306802212302
Status : Answered
Chosen Option : 2

Q.28 'UV 4' is related to 'WX 16' in a certain way based on the English alphabetical and numerical order. In the same way, 'PQ 3' is related to 'RS 9'. To which of the following is 'AB 5' related following the same logic?

- Ans
- ☒ 1. CD 10
 - ☒ 2. AC 25
 - ☒ 3. CE 25
 - ☒ 4. CD 25

Question ID : 630680377765
Option 1 ID : 6306801472119
Option 2 ID : 6306801472122
Option 3 ID : 6306801472121
Option 4 ID : 6306801472120
Status : Answered
Chosen Option : 4

Q.29 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements: Some phones are tablets. Some tablets are laptops.

Conclusion 1: Some laptops are phones.

Conclusion 2: No phone is a laptop.

- Ans**
- ☒ 1. Both conclusion (1) and conclusion (2) follow
 - ☒ 2. Only conclusion (2) follows
 - ☒ 3. Only conclusion (1) follows
 - ☒ 4. None of the conclusions follow

Question ID : 630680381549

Option 1 ID : 6306801487129

Option 2 ID : 6306801487128

Option 3 ID : 6306801487127

Option 4 ID : 6306801487130

Status : Answered

Chosen Option : 4

Q.30 In a certain code language, 'DYO' is coded as '44' and 'PDX' is coded as '44'. What is the code for 'ZMB' in the given language?

- Ans**
- ☒ 1. 48
 - ☒ 2. 56
 - ☒ 3. 52
 - ☒ 4. 41

Question ID : 630680390912

Option 1 ID : 6306801524065

Option 2 ID : 6306801524064

Option 3 ID : 6306801524063

Option 4 ID : 6306801524062

Status : Answered

Chosen Option : 4

Q.31 What should come in place of the question mark (?) in the given series?
54, 43, 33, 24, 16, ?

- Ans**
- ☒ 1. 8
 - ☒ 2. 6
 - ☒ 3. 11
 - ☒ 4. 9

Question ID : 630680380559

Option 1 ID : 6306801483226

Option 2 ID : 6306801483223

Option 3 ID : 6306801483224

Option 4 ID : 6306801483225

Status : Answered

Chosen Option : 4

Q.32 In a certain code language,
'A + B' means 'A is the husband of B',
'A - B' means 'A is the wife of B',
'A × B' means 'A is the father of B', and
'A ÷ B' means 'A is the sister of B'.
How is P related to T if 'P - Q × R ÷ S + T'?

- Ans ☒ 1. Father's mother
☒ 2. Husband's mother
☒ 3. Brother's wife
☒ 4. Son's wife

Question ID : 630680377457
Option 1 ID : 6306801470893
Option 2 ID : 6306801470894
Option 3 ID : 6306801470892
Option 4 ID : 6306801470891
Status : Answered
Chosen Option : 2

Q.33 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

CGPY, KOXG, SWFO, AENW, ?

- Ans ☒ 1. IMVE
☒ 2. IVEB
☒ 3. IMNJ
☒ 4. IKJU

Question ID : 630680469533
Option 1 ID : 6306801833899
Option 2 ID : 6306801833900
Option 3 ID : 6306801833901
Option 4 ID : 6306801833902
Status : Answered
Chosen Option : 1

Q.34 PUQT is related to RWSV in a certain way based on the English alphabetical order. In the same way, SXTW is related to UZVY. To which of the following is KPLO related, following the same logic?

- Ans ☒ 1. NRMQ
☒ 2. MRNQ
☒ 3. MRNP
☒ 4. NRQM

Question ID : 630680379504
Option 1 ID : 6306801479060
Option 2 ID : 6306801479062
Option 3 ID : 6306801479061
Option 4 ID : 6306801479059
Status : Answered
Chosen Option : 3

Q.35 Select the triad in which the numbers are related to each other in the same way as are the numbers of the given triads.
(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.)
(218, 121, 97)
(254, 138, 116)

- Ans**
- ☒ 1. (267, 118, 129)
 - ☒ 2. (312, 194, 128)
 - ☒ 3. (296, 147, 156)
 - ☒ 4. (325, 184, 141)

Question ID : 630680392059
Option 1 ID : 6306801528612
Option 2 ID : 6306801528613
Option 3 ID : 6306801528611
Option 4 ID : 6306801528610
Status : Answered
Chosen Option : 4

Q.36 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 plants are rocks. All rocks are lakes. No lake is a kite.

Conclusions:

- (I) No rock is a kite.
- (II) At least some lakes are plants.

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

Question ID : 630680376862
Option 1 ID : 6306801468512
Option 2 ID : 6306801468514
Option 3 ID : 6306801468513
Option 4 ID : 6306801468511
Status : Answered
Chosen Option : 4

Q.37 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
NTZ, LRX, JPV, HNT, ?

- Ans**
- ☒ 1. FMR
 - ☒ 2. GLR
 - ☒ 3. GLN
 - ☒ 4. FLR

Question ID : 630680376691
Option 1 ID : 6306801467829
Option 2 ID : 6306801467828
Option 3 ID : 6306801467830
Option 4 ID : 6306801467827
Status : Answered
Chosen Option : 4

Q.38 'TOUR' is related to 'VQWT' in a certain way based on the English alphabetical order. In the same way, 'QLRO' is related to 'SNTQ'. To which of the following is 'MHNK' related following the same logic?

- Ans
- ☒ 1. OJMP
 - ☒ 2. JOPM
 - ☒ 3. JOMP
 - ☒ 4. OJPM

Question ID : 630680387671

Option 1 ID : 6306801511334

Option 2 ID : 6306801511337

Option 3 ID : 6306801511336

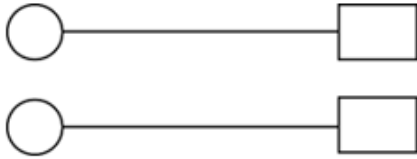
Option 4 ID : 6306801511335

Status : Answered

Chosen Option : 4

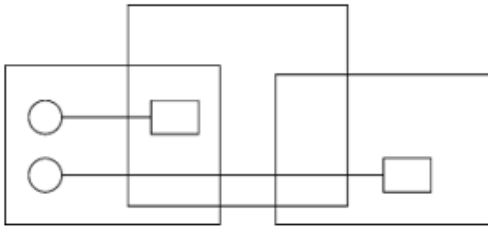


Q.39 Select the option in which the given figure is embedded (rotation is NOT allowed).

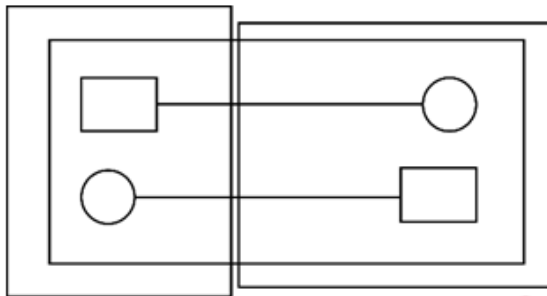


Ans

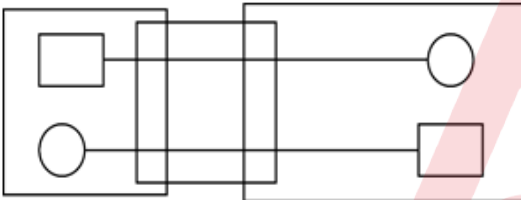
✗ 1.



✗ 2.



✗ 3.



✓ 4.



Question ID : 630680524583

Option 1 ID : 6306802050434

Option 2 ID : 6306802050431

Option 3 ID : 6306802050433

Option 4 ID : 6306802050432

Status : Answered

Chosen Option : 4

Q.40 What should come in place of the question mark (?) in the given series?
44, 48, 52, 56, 60, 64, ?

- Ans ☒ 1. 68
☐ 2. 72
☐ 3. 70
☐ 4. 66

Question ID : 630680380563
Option 1 ID : 6306801483240
Option 2 ID : 6306801483241
Option 3 ID : 6306801483242
Option 4 ID : 6306801483239
Status : Answered
Chosen Option : 1

Q.41 A, B, C, D, P, Q, and R are sitting around a circular table, facing the centre (not necessarily in the same order). Only three people sit between D and R when counted from the right of R. B is an immediate neighbour of both R and Q. P sits second to the left of D. C is not an immediate neighbour of D. Who is sitting third to the right of R?

- Ans ☐ 1. C
☒ 2. A
☐ 3. P
☐ 4. Q

Question ID : 630680376654
Option 1 ID : 6306801467682
Option 2 ID : 6306801467679
Option 3 ID : 6306801467681
Option 4 ID : 6306801467680
Status : Answered
Chosen Option : 2

Q.42 123 is related to 223 following a certain logic. Following the same logic, 465 is related to 565. To which of the following is 786 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. 686
☐ 2. 786
☒ 3. 886
☐ 4. 986

Question ID : 630680397504
Option 1 ID : 6306801549934
Option 2 ID : 6306801549935
Option 3 ID : 6306801549936
Option 4 ID : 6306801549937
Status : Answered
Chosen Option : 3

Q.43 Pillar P is to the west of Pillar Q. Pillar R is to the east of Pillar Q. Pillar T is to the north of Pillar R. Pillar U is to the south of Pillar R. What is the position of Pillar Q with respect to Pillar U?

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

Question ID : 630680382479

Option 1 ID : 6306801490834

Option 2 ID : 6306801490833

Option 3 ID : 6306801490831

Option 4 ID : 6306801490832

Status : Answered

Chosen Option : 4

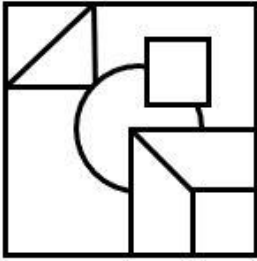


Q.44 Select the option in which the given figure is embedded (rotation is NOT allowed).

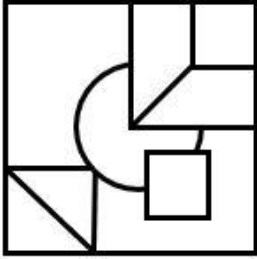


Ans

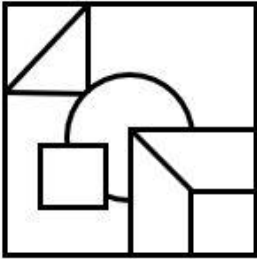
✗ 1.



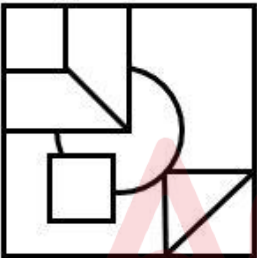
✗ 2.



✓ 3.



✗ 4.



Question ID : 630680524477

Option 1 ID : 6306802050008

Option 2 ID : 6306802050007

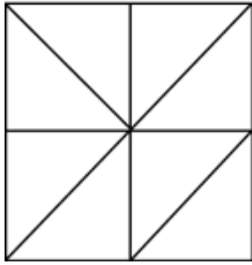
Option 3 ID : 6306802050009

Option 4 ID : 6306802050010

Status : Answered

Chosen Option : 3

Q.45 How many triangles are there in the given figure?



- Ans
- ☒ 1. 11
 - ☒ 2. 14
 - ☒ 3. 12
 - ☒ 4. 13

Question ID : 630680524412
Option 1 ID : 6306802049747
Option 2 ID : 6306802049750
Option 3 ID : 6306802049748
Option 4 ID : 6306802049749
Status : Answered
Chosen Option : 3

Q.46 152 is related to 19 following a certain logic. Following the same logic, 232 is related to 29. To which of the following is 392 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/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.)

- Ans
- ☒ 1. 49
 - ☒ 2. 47
 - ☒ 3. 46
 - ☒ 4. 48

Question ID : 630680396907
Option 1 ID : 6306801547699
Option 2 ID : 6306801547697
Option 3 ID : 6306801547696
Option 4 ID : 6306801547698
Status : Answered
Chosen Option : 1

Q.47 What will come in place of the question mark (?) in the following equation if '+' and '-' are interchanged and 'x' and '÷' are interchanged?
 $4 \div 5 + 21 \times 3 - 2 = ?$

- Ans
- ☒ 1. 15
 - ☒ 2. 17
 - ☒ 3. 14
 - ☒ 4. 12

Question ID : 630680377835
Option 1 ID : 6306801472401
Option 2 ID : 6306801472402
Option 3 ID : 6306801472400
Option 4 ID : 6306801472399
Status : Answered
Chosen Option : 1

Q.48 In a certain code language, 'BOIL' is coded as '6428' and 'LEAD' is coded as '9671'.
What is the code for 'L' in that language?

- Ans ☒ 1. 8
☒ 2. 6
☒ 3. 9
☒ 4. 1

Question ID : 630680376704
Option 1 ID : 6306801467880
Option 2 ID : 6306801467879
Option 3 ID : 6306801467881
Option 4 ID : 6306801467882
Status : Answered
Chosen Option : 3

Q.49 The position(s) of how many letters will remain unchanged if each of the letters in the word SMOTHER is arranged in the English alphabetical order?

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

Question ID : 630680396638
Option 1 ID : 6306801546648
Option 2 ID : 6306801546649
Option 3 ID : 6306801546650
Option 4 ID : 6306801546651
Status : Answered
Chosen Option : 3

Q.50 What should come in place of the question mark (?) in the following series?

11, 17, 29, 47, 71, ?

- Ans ☒ 1. 100
☒ 2. 99
☒ 3. 101
☒ 4. 102

Question ID : 630680386611
Option 1 ID : 6306801507155
Option 2 ID : 6306801507154
Option 3 ID : 6306801507156
Option 4 ID : 6306801507157
Status : Answered
Chosen Option : 3

Q.1 Which of the following sentence/s is/are NOT correct?

- The detailed estimates of revenue receipts are usually presented in the finance bill.
- Non-tax revenue of the central government mainly consists of taxes imposed on goods imported into and exported out of India.
- Revenue receipts are redeemable.

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

Question ID : 630680401267

Option 1 ID : 6306801564873

Option 2 ID : 6306801564874

Option 3 ID : 6306801564875

Option 4 ID : 6306801564876

Status : Answered

Chosen Option : 2

Q.2 Sahel is an area in Africa that has lost a huge area of productive land in the last century due to excessive human activities and climate change. This area is a blaring example of _____.

- Ans
- ☒ 1. pollution
 - ☒ 2. endangering species
 - ☒ 3. desertification
 - ☒ 4. failed Irrigation

Question ID : 630680539286

Option 1 ID : 6306802108287

Option 2 ID : 6306802108286

Option 3 ID : 6306802108284

Option 4 ID : 6306802108285

Status : Answered

Chosen Option : 3

Q.3 Sangeet Natak Akademi awardee, Prabhat Sarma from Assam was an eminent player of which of the following musical instruments?

- Ans
- ☒ 1. Sarangi
 - ☒ 2. Flute
 - ☒ 3. Tabla
 - ☒ 4. Sarod

Question ID : 630680415789

Option 1 ID : 6306801621907

Option 2 ID : 6306801621908

Option 3 ID : 6306801621909

Option 4 ID : 6306801621910

Status : Not Answered

Chosen Option : --

Q.4 What is the frequency of an object if we know that it oscillates 100 times in 5 seconds?

- Ans
- ☒ 1. 200 Hz
 - ☒ 2. 100 Hz
 - ☒ 3. 50 Hz
 - ☒ 4. 20 Hz

Question ID : 630680539097
 Option 1 ID : 6306802107555
 Option 2 ID : 6306802107552
 Option 3 ID : 6306802107553
 Option 4 ID : 6306802107554
 Status : Answered
 Chosen Option : 4

Q.5 In the context of internet access, Wi-Fi stands for _____.

- Ans
- ☒ 1. Wired Fidelity
 - ☒ 2. Wireless Fidelity
 - ☒ 3. Wideband Fibre
 - ☒ 4. Web Interface

Question ID : 630680572059
 Option 1 ID : 6306802237100
 Option 2 ID : 6306802237101
 Option 3 ID : 6306802237102
 Option 4 ID : 6306802237103
 Status : Answered
 Chosen Option : 2

Q.6 As per newest notification of december 2023, the decennial Census of India to be delayed till at least _____.

- Ans
- ☒ 1. January 2024
 - ☒ 2. October 2024
 - ☒ 3. March 2024
 - ☒ 4. July 2024

Question ID : 630680513813
 Option 1 ID : 6306802007878
 Option 2 ID : 6306802007880
 Option 3 ID : 6306802007877
 Option 4 ID : 6306802007879
 Status : Answered
 Chosen Option : 2

Q.7 Which of the following fundamental rights has been amended as a constitutional right in the form of Article 300A in the new Chapter IV Part XII of the Indian Constitution?

- Ans
- ☒ 1. Cultural and Educational Rights
 - ☒ 2. Right to Freedom of Religion
 - ☒ 3. Right against Exploitation
 - ☒ 4. Right to Property

Question ID : 630680493493
 Option 1 ID : 6306801927711
 Option 2 ID : 6306801927712
 Option 3 ID : 6306801927713
 Option 4 ID : 6306801927714
 Status : Answered
 Chosen Option : 4

Q.8 Otto von Guericke was the most prominent person known for which invention in the 17th century?

- Ans
- ☒ 1. Diesel engine
 - ☒ 2. Fluorescent electric lamp
 - ☒ 3. Air pump
 - ☒ 4. Barometer

Question ID : 630680402106
 Option 1 ID : 6306801568113
 Option 2 ID : 6306801568112
 Option 3 ID : 6306801568114
 Option 4 ID : 6306801568115
 Status : Answered
 Chosen Option : 3

Q.9 Which of the following statements about the Rajasthan Minimum Guaranteed Income Bill 2023 is INCORRECT?

- Ans
- ☒ 1. The bill promises 125 days of work a year for all families in the state.
 - ☒ 2. The bill guarantees a minimum pension of ₹1,000 per month to the elderly, specially abled, widows and single women.
 - ☒ 3. The minimum pension under the bill will increase by 15% every year.
 - ☒ 4. The bill offers free education to all residents of Rajasthan.

Question ID : 630680469603
 Option 1 ID : 6306801834175
 Option 2 ID : 6306801834176
 Option 3 ID : 6306801834177
 Option 4 ID : 6306801834178
 Status : Answered
 Chosen Option : 3

Q.10 What is the name of the scheme announced by Arunachal Pradesh Chief Minister Pema Khandu in September 2023 for the welfare of the state's labour force?

- Ans
- ☒ 1. Mukhya Mantri Shramik Suraksha Yojana
 - ☒ 2. Arunachal Shramik Vikas Yojana
 - ☒ 3. Labor Welfare Samriddhi Yojana
 - ☒ 4. Mukhya Mantri Shramik Kalyan Yojana

Question ID : 630680469539
 Option 1 ID : 6306801833923
 Option 2 ID : 6306801833924
 Option 3 ID : 6306801833925
 Option 4 ID : 6306801833926
 Status : Not Answered
 Chosen Option : --

Q.11 What is a small, shallow freshwater body with calm water called?

- Ans ☒ 1. Lagoon
☒ 2. Pond
☒ 3. Lake
☒ 4. River

Question ID : 630680546839
 Option 1 ID : 6306802137926
 Option 2 ID : 6306802137925
 Option 3 ID : 6306802137923
 Option 4 ID : 6306802137924
 Status : Answered
 Chosen Option : 2

Q.12 Who has been appointed as India's first Woman Aide-De-Camp by the governor of Mizoram?

- Ans ☒ 1. Abhilipsa Mohanty
☒ 2. Poonam Veeram
☒ 3. Deepa Shah
☒ 4. Manisha Padhi

Question ID : 630680629440
 Option 1 ID : 6306802463830
 Option 2 ID : 6306802463831
 Option 3 ID : 6306802463832
 Option 4 ID : 6306802463833
 Status : Not Answered
 Chosen Option : --

Q.13 What is the primary function of carbohydrates in the body?

- Ans ☒ 1. To build muscle
☒ 2. To enhance vision
☒ 3. To regulate metabolism
☒ 4. To provide energy

Question ID : 630680701425
 Option 1 ID : 6306802747638
 Option 2 ID : 6306802747640
 Option 3 ID : 6306802747639
 Option 4 ID : 6306802747637
 Status : Answered
 Chosen Option : 4

Q.14 The enzyme that is essential for fat digestion is:

- Ans ☒ 1. lipase
☒ 2. zymase
☒ 3. trypsin
☒ 4. invertase

Question ID : 630680544735
 Option 1 ID : 6306802129703
 Option 2 ID : 6306802129705
 Option 3 ID : 6306802129702
 Option 4 ID : 6306802129704
 Status : Answered
 Chosen Option : 4

Q.15 Mahatma Gandhi gave the slogan of 'Do or Die' during the _____.

- Ans ☒ 1. Non-Cooperation Movement
☒ 2. Quit India Movement
☒ 3. Kheda Satyagraha
☒ 4. Champaran Satyagraha

Question ID : 630680572371
 Option 1 ID : 6306802238324
 Option 2 ID : 6306802238325
 Option 3 ID : 6306802238326
 Option 4 ID : 6306802238327
 Status : Answered
 Chosen Option : 2

Q.16 What is the process by which one organism captures and consumes another organism called?

- Ans ☒ 1. Mutualism
☒ 2. Competition
☒ 3. Predation
☒ 4. Parasitism

Question ID : 630680412056
 Option 1 ID : 6306801607059
 Option 2 ID : 6306801607060
 Option 3 ID : 6306801607061
 Option 4 ID : 6306801607062
 Status : Answered
 Chosen Option : 3

Q.17 Which months are known for the season of retreating monsoon in India?

- Ans ☒ 1. October and November
☒ 2. March and April
☒ 3. May and June
☒ 4. January and February

Question ID : 630680511027
 Option 1 ID : 6306801997240
 Option 2 ID : 6306801997241
 Option 3 ID : 6306801997238
 Option 4 ID : 6306801997239
 Status : Answered
 Chosen Option : 3

Q.18 Under the Regulating Act of 1773, the Supreme Court was established by British Emperor in which of the following cities in British India?

- Ans ☒ 1. Bombay
☒ 2. Madras
☒ 3. Calcutta
☒ 4. Delhi

Question ID : 630680511585
 Option 1 ID : 6306801999464
 Option 2 ID : 6306801999465
 Option 3 ID : 6306801999463
 Option 4 ID : 6306801999462
 Status : Answered
 Chosen Option : 3

Q.19 Which system of India is based on the Westminster model?

Ans ☒ 1. Indian Parliamentary system

☒ 2. Welfare State system

☒ 3. Federal system

☒ 4. Strong Centre system

Question ID : 630680426502

Option 1 ID : 6306801664094

Option 2 ID : 6306801664095

Option 3 ID : 6306801664096

Option 4 ID : 6306801664097

Status : Not Answered

Chosen Option : --

Q.20 By what name is Vitamin B1 known which is essential for glucose metabolism and healthy nerve, muscle and heart function?

Ans ☒ 1. Thiamin

☒ 2. Riboflavin

☒ 3. Niacin

☒ 4. Pantothenic acid

Question ID : 630680404157

Option 1 ID : 6306801576114

Option 2 ID : 6306801576115

Option 3 ID : 6306801576116

Option 4 ID : 6306801576117

Status : Answered

Chosen Option : 1

Q.21 When did the Indigo Revolt of Bengal take place?

Ans ☒ 1. 1859 C.E.

☒ 2. 1855 C.E.

☒ 3. 1852 C.E.

☒ 4. 1857 C.E.

Question ID : 630680511557

Option 1 ID : 6306801999353

Option 2 ID : 6306801999351

Option 3 ID : 6306801999350

Option 4 ID : 6306801999352

Status : Not Answered

Chosen Option : --

Q.22 Which of the following steps can be taken to mitigate landslides?

- A. Settlements to be avoided in identified landslide-prone areas
- B. Cutting of unnecessary trees and vegetation
- C. Building strong walls
- D. Not constructing drainage systems to avoid constructions

Ans ☒ 1. A and C

☒ 2. A and B

☒ 3. Only B and D

☒ 4. B, C and D

Question ID : 630680546832

Option 1 ID : 6306802137895

Option 2 ID : 6306802137897

Option 3 ID : 6306802137896

Option 4 ID : 6306802137898

Status : Answered

Chosen Option : 1

Q.23 The 'Rajya Sangeeta Vidwan' award is conferred by which state?

Ans ☒ 1. Tamil Nadu

☒ 2. Kerala

☒ 3. Andhra Pradesh

☒ 4. Karnataka

Question ID : 630680451218

Option 1 ID : 6306801761971

Option 2 ID : 6306801761970

Option 3 ID : 6306801761972

Option 4 ID : 6306801761973

Status : Not Answered

Chosen Option : --

Q.24 If an atom has atomic number = 6 and number of neutrons = 10, then what is the atomic mass of the atom?

Ans ☒ 1. 4

☒ 2. 16

☒ 3. 10

☒ 4. 6

Question ID : 630680401911

Option 1 ID : 6306801567390

Option 2 ID : 6306801567391

Option 3 ID : 6306801567392

Option 4 ID : 6306801567393

Status : Answered

Chosen Option : 2

Q.25 The basophilic nucleoprotein granules that are scattered within the cytoplasm of a nerve cell and helps in the protein synthesis are known as:

Ans ☒ 1. Nissl bodies

☐ 2. Subunit of Parson

☐ 3. Oxisome

☐ 4. Golgi bodies

Question ID : 630680399223

Option 1 ID : 6306801556839

Option 2 ID : 6306801556840

Option 3 ID : 6306801556841

Option 4 ID : 6306801556842

Status : Not Answered

Chosen Option : --

Q.26 How many items did the Swaran Singh Committee recommend to be incorporated in the Constitution of India as duties of the Indian citizen?

Ans ☒ 1. 8

☐ 2. 12

☐ 3. 6

☐ 4. 10

Question ID : 630680804336

Option 1 ID : 6306803151076

Option 2 ID : 6306803151078

Option 3 ID : 6306803151075

Option 4 ID : 6306803151077

Status : Not Answered

Chosen Option : --

Q.27 Which disease is characterised by the body's inability to regulate blood sugar levels?

Ans ☐ 1. Hypertension

☐ 2. Asthma

☐ 3. Arthritis

☒ 4. Diabetes

Question ID : 630680701422

Option 1 ID : 6306802747627

Option 2 ID : 6306802747626

Option 3 ID : 6306802747625

Option 4 ID : 6306802747628

Status : Answered

Chosen Option : 4

Q.28 Who was re-appointed as the Solicitor General of India for a term of three years starting from 1 July 2023?

Ans ☐ 1. Suryaprakash V Raju

☒ 2. Tushar Mehta

☐ 3. Chetan Sharma

☐ 4. Vikramjit Banerjee

Question ID : 630680412698

Option 1 ID : 6306801609615

Option 2 ID : 6306801609616

Option 3 ID : 6306801609617

Option 4 ID : 6306801609618

Status : Answered

Chosen Option : 2

Q.29 What is the name of project undertaken by the Indian Government to conserve tigers when their population dwindled to very low numbers?

- Ans
- ☒ 1. Animal Protection
 - ☒ 2. Project Tiger
 - ☒ 3. Predator Project
 - ☒ 4. Wildlife Conservation Project

Question ID : 630680539337
 Option 1 ID : 6306802108478
 Option 2 ID : 6306802108477
 Option 3 ID : 6306802108479
 Option 4 ID : 6306802108476
 Status : Answered
 Chosen Option : 2

Q.30 Which of the following pairs is NOT correctly matched?

- Ans
- ☒ 1. FIFA World Cup Football 2022 – Japan
 - ☒ 2. Olympics 2020 – Tokyo
 - ☒ 3. FIH Men Hockey World Cup 2023 – India
 - ☒ 4. Commonwealth Games 2022 – England

Question ID : 630680510860
 Option 1 ID : 6306801996572
 Option 2 ID : 6306801996571
 Option 3 ID : 6306801996573
 Option 4 ID : 6306801996570
 Status : Answered
 Chosen Option : 3

Q.31 PT Usha clocked a timing of 55.42 sec in 400-metre hurdles at which of the following Olympic Games?

- Ans
- ☒ 1. 1980 Moscow
 - ☒ 2. 1984 Los Angeles
 - ☒ 3. 1948 London
 - ☒ 4. 1956 Melbourne

Question ID : 630680436001
 Option 1 ID : 6306801701953
 Option 2 ID : 6306801701954
 Option 3 ID : 6306801701955
 Option 4 ID : 6306801701956
 Status : Not Answered
 Chosen Option : --

Q.32 What is the freezing point of water on the Celsius scale?

- Ans
- ☒ 1. 32°C
 - ☒ 2. 100°C
 - ☒ 3. 98°C
 - ☒ 4. 0°C

Question ID : 630680407794
 Option 1 ID : 6306801590115
 Option 2 ID : 6306801590114
 Option 3 ID : 6306801590117
 Option 4 ID : 6306801590116
 Status : Answered
 Chosen Option : 4

Q.33 The supreme court has published new guidelines for which designation on 17 July 2023?

- Ans
- ☒ 1. District Judge
 - ☒ 2. Senior Advocate
 - ☒ 3. Judicial Magistrate
 - ☒ 4. Additional Senior Civil Judge

Question ID : 630680411234
 Option 1 ID : 6306801603688
 Option 2 ID : 6306801603689
 Option 3 ID : 6306801603690
 Option 4 ID : 6306801603691
 Status : Answered
 Chosen Option : 3

Q.34 Which of the following options is used to check the spelling and grammar in a Microsoft Word document?

- Ans
- ☒ 1. Review tab
 - ☒ 2. Home tab
 - ☒ 3. Insert tab
 - ☒ 4. Format tab

Question ID : 630680577721
 Option 1 ID : 6306802259728
 Option 2 ID : 6306802259729
 Option 3 ID : 6306802259730
 Option 4 ID : 6306802259731
 Status : Answered
 Chosen Option : 1

Q.35 According to Census of India 2011, what is the population growth rate in the Hindu community?

- Ans
- ☒ 1. 8.3%
 - ☒ 2. 24.9%
 - ☒ 3. 16.8%
 - ☒ 4. 30.2%

Question ID : 630680477719
 Option 1 ID : 6306801866024
 Option 2 ID : 6306801866025
 Option 3 ID : 6306801866026
 Option 4 ID : 6306801866027
 Status : Answered
 Chosen Option : 1

Q.36 If the meat is cooked above 140°C, which of the following reactions occurs?

- Ans
- ☐ 1. Emulsification
 - ☐ 2. Oxidation reaction
 - ☒ 3. Maillard reaction
 - ☐ 4. Caramelisation

Question ID : 630680401856
 Option 1 ID : 6306801567196
 Option 2 ID : 6306801567197
 Option 3 ID : 6306801567194
 Option 4 ID : 6306801567195
 Status : Answered
 Chosen Option : 3

Q.37 Which of the following lakes is located in Buldhana district of Maharashtra?

- Ans
- ☐ 1. Dal
 - ☐ 2. Bhimtal
 - ☒ 3. Lonar
 - ☐ 4. Pushkar

Question ID : 630680510950
 Option 1 ID : 6306801996931
 Option 2 ID : 6306801996932
 Option 3 ID : 6306801996930
 Option 4 ID : 6306801996933
 Status : Answered
 Chosen Option : 3

Q.38 Who was the chairman of the task force on the production and promotion of biofertilizers constituted by NITI Aayog in 2021?

- Ans
- ☒ 1. Prof. Ramesh Chand
 - ☐ 2. Prof. Suresh Pal
 - ☐ 3. Prof. Vijay P Sharma
 - ☐ 4. Prof. Gopal Naik

Question ID : 630680488132
 Option 1 ID : 6306801906587
 Option 2 ID : 6306801906588
 Option 3 ID : 6306801906589
 Option 4 ID : 6306801906590
 Status : Answered
 Chosen Option : 1

Q.39 If a government wants to boost economic growth in a recession, which measure is it likely to take?

- Ans
- ☒ 1. Increase public spending
 - ☐ 2. Reduce public spending
 - ☐ 3. Increase taxes significantly
 - ☐ 4. Implement strict trade barriers

Question ID : 630680535873
 Option 1 ID : 6306802094838
 Option 2 ID : 6306802094837
 Option 3 ID : 6306802094836
 Option 4 ID : 6306802094839
 Status : Answered
 Chosen Option : 1

Q.40 In dravidian style of temples the main temple tower is known as _____ .

- Ans
- ☒ 1. mandapa
 - ☒ 2. gopuram
 - ☒ 3. vimana
 - ☒ 4. shikhara

Question ID : 630680511632
 Option 1 ID : 6306801999653
 Option 2 ID : 6306801999651
 Option 3 ID : 6306801999650
 Option 4 ID : 6306801999652
 Status : Answered
 Chosen Option : 4

Q.41 Match the following.

A	Propene	1	Unsaturated 3 carbon chains with double bond
B	Propyne	2	Unsaturated 3 carbon chains with triple bond
C	Propane	3	Saturated 3 carbon bonds

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

Question ID : 630680401768
 Option 1 ID : 6306801566838
 Option 2 ID : 6306801566839
 Option 3 ID : 6306801566840
 Option 4 ID : 6306801566841
 Status : Answered
 Chosen Option : 4

Q.42 The Indian Copper Complex (ICC) is located at Ghatsila in the state of _____.

- Ans
- ☒ 1. Jharkhand
 - ☒ 2. Rajasthan
 - ☒ 3. Telangana
 - ☒ 4. Maharashtra

Question ID : 630680510980
 Option 1 ID : 6306801997051
 Option 2 ID : 6306801997050
 Option 3 ID : 6306801997052
 Option 4 ID : 6306801997053
 Status : Not Answered
 Chosen Option : --

Q.43 Mango shower is a term used for _____.

- Ans ☒ 1. pre-monsoon showers
☒ 2. post-monsoon showers
☒ 3. winter showers
☒ 4. monsoon showers

Question ID : 630680564473
 Option 1 ID : 6306802206827
 Option 2 ID : 6306802206828
 Option 3 ID : 6306802206830
 Option 4 ID : 6306802206829
 Status : Answered
 Chosen Option : 1

Q.44 Boron is the only metalloid of which group of the periodic table?

- Ans ☒ 1. Group 5
☒ 2. Group 16
☒ 3. Group 10
☒ 4. Group 13

Question ID : 630680403589
 Option 1 ID : 6306801573850
 Option 2 ID : 6306801573852
 Option 3 ID : 6306801573851
 Option 4 ID : 6306801573853
 Status : Answered
 Chosen Option : 4

Q.45 The world's largest population of which endangered species resides in Assam's Kaziranga National Park?

- Ans ☒ 1. Shaggy horn wild ibex
☒ 2. Bluebull
☒ 3. One-horned rhinoceros
☒ 4. Red panda

Question ID : 630680404428
 Option 1 ID : 6306801577212
 Option 2 ID : 6306801577213
 Option 3 ID : 6306801577214
 Option 4 ID : 6306801577215
 Status : Answered
 Chosen Option : 3

Q.46 According to Census of India 2011, which state recorded the second highest literacy rate in India?

- Ans ☒ 1. Nagaland
☒ 2. Goa
☒ 3. Tripura
☒ 4. Mizoram

Question ID : 630680477341
 Option 1 ID : 6306801864521
 Option 2 ID : 6306801864522
 Option 3 ID : 6306801864523
 Option 4 ID : 6306801864524
 Status : Answered
 Chosen Option : 2

Q.47 Which of the following sentences is/are true?
i. After independence, about two-thirds of India's population is now (2011 Census) literate.
ii. In India, between 2001 and 2011, male literacy rose faster than female literacy.
iii. Female literacy rose by about 10.4 per cent between 2001 and 2011 in India.

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

Question ID : 630680488271
Option 1 ID : 6306801907139
Option 2 ID : 6306801907140
Option 3 ID : 6306801907141
Option 4 ID : 6306801907142
Status : Answered
Chosen Option : 3

Q.48 Which of the following are the functions of the National Commission for Scheduled Castes?

- 1) Providing Constitutional protection to Scheduled Castes
- 2) Investigating any case that violates the interests of Scheduled Castes
- 3) Submitting a report to the Prime Minister related to the protection of Scheduled Castes
- 4) Presenting to the President, annually and at such other times as the Commission may deem fit, reports upon the working of those safeguards

- 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 : 630680426482
Option 1 ID : 6306801664014
Option 2 ID : 6306801664015
Option 3 ID : 6306801664016
Option 4 ID : 6306801664017
Status : Answered
Chosen Option : 3

Q.49 The Gujarat Assembly, on 18 September 2023, approved a bill that reserves _____ of local body seats specifically for Other Backward Classes (OBCs).

- Ans ☒ 1. 20%
☒ 2. 27%
☒ 3. 30%
☒ 4. 35%

Question ID : 630680469585
Option 1 ID : 6306801834103
Option 2 ID : 6306801834104
Option 3 ID : 6306801834105
Option 4 ID : 6306801834106
Status : Not Answered
Chosen Option : --

Q.50 Which of the following features was borrowed by the Constitution of India from Ireland?

- Ans ☒ 1. Separation of Powers
☒ 2. Directive Principles of State Policy
☒ 3. Fundamental Rights
☒ 4. Amendment Method

Question ID : 630680409038
 Option 1 ID : 6306801595077
 Option 2 ID : 6306801595078
 Option 3 ID : 6306801595079
 Option 4 ID : 6306801595080
 Status : Answered
 Chosen Option : 2

Section : General Engineering Civil and Structural

Q.1 For a balanced beam section, the limit state is reached when:

- Ans ☒ 1. there is the simultaneous crushing of concrete and breaking of steel
☒ 2. there is the simultaneous yielding of both concrete and steel
☒ 3. there is the simultaneous crushing of concrete and yielding of steel
☒ 4. there is the simultaneous yielding of concrete and breaking of steel

Question ID : 630680509661
 Option 1 ID : 6306801991849
 Option 2 ID : 6306801991850
 Option 3 ID : 6306801991852
 Option 4 ID : 6306801991851
 Status : Answered
 Chosen Option : 3

Q.2 Which of the following indicates a preliminary stage of dead knot, where the fibres of knot are not firmly held in the surrounding wood?

- Ans ☒ 1. Tight knot
☒ 2. Loose knot
☒ 3. Dead knot
☒ 4. Round knot

Question ID : 630680509694
 Option 1 ID : 6306801991984
 Option 2 ID : 6306801991982
 Option 3 ID : 6306801991981
 Option 4 ID : 6306801991983
 Status : Not Answered
 Chosen Option : --

Q.3 Which of the following is not a primary objective of design of railway track geometric?

Ans ☒ 1. Carrying only light axle load

☒ 2. Safety

☒ 3. Smooth running

☒ 4. Achieving maximum speed

Question ID : 630680198291

Option 1 ID : 630680769337

Option 2 ID : 630680769338

Option 3 ID : 630680769336

Option 4 ID : 630680769335

Status : Answered

Chosen Option : 1

Q.4 A catchment area of 10 km² has recorded a rainfall of 25 mm/h. Assuming a runoff coefficient of 0.3, the peak discharge from the catchment using the rational method is _____.

Ans ☒ 1. 18.36 cumec

☒ 2. 26.56 cumec

☒ 3. 24.6 cumec

☒ 4. 20.83 cumec

Question ID : 630680504304

Option 1 ID : 6306801970779

Option 2 ID : 6306801970780

Option 3 ID : 6306801970778

Option 4 ID : 6306801970777

Status : Not Answered

Chosen Option : --

Q.5 If 90% of soil particles got retained over 2 mm sieve and 50% of soil particles got retained over 4.75 mm sieve, then the effective diameter of the soil will be:

Ans ☒ 1. 2 mm

☒ 2. 4.75 mm

☒ 3. 1.25 mm

☒ 4. 6.75 mm

Question ID : 630680504535

Option 1 ID : 6306801971701

Option 2 ID : 6306801971702

Option 3 ID : 6306801971704

Option 4 ID : 6306801971703

Status : Answered

Chosen Option : 4

Q.6 _____ are popularly known as white ants, though they are in no way related to ants.

- Ans ☒ 1. Flies
☒ 2. Viruses
☒ 3. Termites
☒ 4. Bacteria

Question ID : 630680198727
 Option 1 ID : 630680770870
 Option 2 ID : 630680770869
 Option 3 ID : 630680770867
 Option 4 ID : 630680770868
 Status : Answered
 Chosen Option : 3

Q.7 Which of the following is the hazardous waste produced by petroleum refining industries?

- Ans ☒ 1. Lead ash
☒ 2. Cyanide-containing sludge
☒ 3. Tarry residues
☒ 4. Spent clay-containing oil

Question ID : 630680509485
 Option 1 ID : 6306801991211
 Option 2 ID : 6306801991212
 Option 3 ID : 6306801991210
 Option 4 ID : 6306801991209
 Status : Answered
 Chosen Option : 1

Q.8 In the direct shear test conducted on soils, a proving ring is used to _____.

- Ans ☒ 1. measure the magnitude of shear load
☒ 2. measure vertical strain
☒ 3. measure horizontal strain
☒ 4. measure horizontal stress

Question ID : 630680181902
 Option 1 ID : 630680704845
 Option 2 ID : 630680704843
 Option 3 ID : 630680704842
 Option 4 ID : 630680704844
 Status : Answered
 Chosen Option : 1

Q.9 Which of the following properties should the subgrade soil have in order to be used as highway material?

- Ans ☒ 1. Stability, incompressibility, good drainage
- ☐ 2. Large changes in volume under adverse conditions of weather, stability
- ☐ 3. Large changes in volume under adverse conditions of weather, compressibility, good drainage
- ☐ 4. Ease of compaction, compressibility, stability

Question ID : 630680509459

Option 1 ID : 6306801991108

Option 2 ID : 6306801991106

Option 3 ID : 6306801991105

Option 4 ID : 6306801991107

Status : Answered

Chosen Option : 4

Q.10 If the velocity of the fluid does NOT change with respect to time, the flow is said to be a/an:

- Ans ☐ 1. unsteady flow
- ☒ 2. steady flow
- ☐ 3. uniform flow
- ☐ 4. non-uniform flow

Question ID : 630680506963

Option 1 ID : 6306801981358

Option 2 ID : 6306801981357

Option 3 ID : 6306801981359

Option 4 ID : 6306801981360

Status : Answered

Chosen Option : 3

Q.11 Which of the following is/are the objectives of road sign?

- i. Promote road safety
- ii. Promote efficient movement of vehicles
- iii. Increase design speed
- iv. Calculate traffic volume
- v. Provide warning for safe movement

- Ans ☐ 1. Only i
- ☐ 2. i, ii, iii and v
- ☐ 3. Both iii and v
- ☒ 4. Only i, ii and v

Question ID : 630680509078

Option 1 ID : 6306801989607

Option 2 ID : 6306801989610

Option 3 ID : 6306801989608

Option 4 ID : 6306801989609

Status : Answered

Chosen Option : 4

Q.12 A soil has a liquid limit of 40% and its plasticity index is 10%. The percentage passing through a 4.75 mm sieve is 60% and the percentage passing through a 75 micron sieve is 45%. The soil can be classified as:

- Ans
- ☒ 1. GM
 - ☒ 2. SM
 - ☒ 3. GC
 - ☒ 4. SM-SC

Question ID : 630680504507
 Option 1 ID : 6306801971589
 Option 2 ID : 6306801971591
 Option 3 ID : 6306801971590
 Option 4 ID : 6306801971592
 Status : Answered
 Chosen Option : 4

Q.13 What will be the discharge of a single-acting pump if it has one cylinder of area 0.5 m^2 and stroke of length 20 cm and if the pump has 180 rpm of speed?

- Ans
- ☒ 1. $0.2 \text{ m}^3/\text{s}$
 - ☒ 2. $0.3 \text{ m}^3/\text{s}$
 - ☒ 3. $0.1 \text{ m}^3/\text{s}$
 - ☒ 4. $0.25 \text{ m}^3/\text{s}$

Question ID : 630680506945
 Option 1 ID : 6306801981285
 Option 2 ID : 6306801981286
 Option 3 ID : 6306801981288
 Option 4 ID : 6306801981287
 Status : Answered
 Chosen Option : 2

Q.14 The biological treatment techniques used can be classified into attached growth processes and suspended growth processes. Which of the following treatments is classified under attached growth processes?

- Ans
- ☒ 1. Aerated lagoon
 - ☒ 2. Sludge digestion system
 - ☒ 3. Activated sludge process
 - ☒ 4. Rotating biological conductor

Question ID : 630680191266
 Option 1 ID : 630680741705
 Option 2 ID : 630680741706
 Option 3 ID : 630680741708
 Option 4 ID : 630680741707
 Status : Answered
 Chosen Option : 1

Q.15 In the laboratory determination of California Bearing Ratio (CBR) test on soils as per IS : 2720(Part 16) – 1987, the CBR values are usually reported for penetration values of :

- Ans
- ☒ 1. 5.0 mm, 7.5 mm
 - ☒ 2. 3.5 mm, 5.0 mm
 - ☒ 3. 1.5 mm, 2.5 mm
 - ☒ 4. 2.5 mm, 5.0 mm

Question ID : 630680504579
 Option 1 ID : 6306801971880
 Option 2 ID : 6306801971879
 Option 3 ID : 6306801971877
 Option 4 ID : 6306801971878
 Status : Answered
 Chosen Option : 4

Q.16 Plinth area is calculated for the covered area by taking _____.

- Ans
- ☒ 1. external dimensions of the building at the floor level
 - ☒ 2. internal dimensions of the building at floor level
 - ☒ 3. both the external and internal dimension of the building at the floor level
 - ☒ 4. centre to centre length at floor level

Question ID : 630680504122
 Option 1 ID : 6306801970050
 Option 2 ID : 6306801970051
 Option 3 ID : 6306801970052
 Option 4 ID : 6306801970049
 Status : Answered
 Chosen Option : 3

Q.17 The soil has a liquid limit of 50 %. Following the A-line, in the plasticity chart as per IS : 1498 – 1970, the corresponding plastic limit is :

- Ans
- ☒ 1. 28.1%
 - ☒ 2. 25%
 - ☒ 3. 21.9%
 - ☒ 4. Insufficient data

Question ID : 630680504536
 Option 1 ID : 6306801971705
 Option 2 ID : 6306801971707
 Option 3 ID : 6306801971706
 Option 4 ID : 6306801971708
 Status : Answered
 Chosen Option : 4

Q.18 Which of the following statements about the secondary treatment of sewage is INCORRECT?

- Ans
- ☒ 1. Oxidation of organic matter occurs in trickling filters under aerobic conditions.
 - ☒ 2. Activated sludge is biologically active.
 - ☒ 3. Primary treatment of sewage is not essential for efficient working of contact beds.
 - ☒ 4. Secondary treatment methods are broadly divided into filtration and activated sludge process.

Question ID : 630680509501

Option 1 ID : 6306801991275

Option 2 ID : 6306801991276

Option 3 ID : 6306801991274

Option 4 ID : 6306801991273

Status : Answered

Chosen Option : 3

Q.19 Which of the following options serves all the three objectives mentioned below?

- I: To promote human health
II: To provide a cleaner environment
III: To break the cycle of diseases

- Ans
- ☒ 1. Scavenging system
 - ☒ 2. Distribution system
 - ☒ 3. Drainage system
 - ☒ 4. Sanitary system

Question ID : 630680509469

Option 1 ID : 6306801991148

Option 2 ID : 6306801991146

Option 3 ID : 6306801991147

Option 4 ID : 6306801991145

Status : Answered

Chosen Option : 4

Q.20 The result of the soundness test of 53-grade Portland cement conducted by using Le Chatelier's apparatus shall NOT exceed _____ mm.

- Ans
- ☒ 1. 10
 - ☒ 2. 12
 - ☒ 3. 15
 - ☒ 4. 5

Question ID : 630680503288

Option 1 ID : 6306801966737

Option 2 ID : 6306801966738

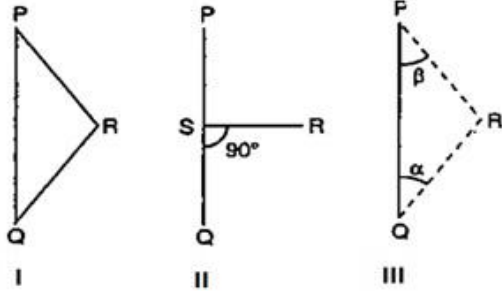
Option 3 ID : 6306801966740

Option 4 ID : 6306801966739

Status : Answered

Chosen Option : 1

Q.21 Let P and Q be the reference points on the ground. You have to establish a point R. Which of the following methods conforms to the fundamental principles of surveying?



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

Question ID : 630680192171

Option 1 ID : 630680745285

Option 2 ID : 630680745287

Option 3 ID : 630680745288

Option 4 ID : 630680745286

Status : Answered

Chosen Option : 1

Q.22 In which type of dressing of stone are about 1 cm vertical or horizontal grooves sunk with a chisel having its shape as a hollow semi-circle?

- Ans
- ☒ 1. Punched dressing
 - ☒ 2. Close picked and fine tooling
 - ☒ 3. Boasted or droved finish
 - ☒ 4. Reticulated finish

Question ID : 630680509690

Option 1 ID : 6306801991968

Option 2 ID : 6306801991967

Option 3 ID : 6306801991966

Option 4 ID : 6306801991965

Status : Answered

Chosen Option : 1

Q.23 The canal fall with a combination of a convex curve and a concave curve, which is provided for carrying the canal water from a higher level to a lower level, is known as _____.

- Ans
- ☒ 1. ogee fall
 - ☒ 2. sarda fall
 - ☒ 3. stepped fall
 - ☒ 4. rapid fall

Question ID : 630680504327

Option 1 ID : 6306801970870

Option 2 ID : 6306801970872

Option 3 ID : 6306801970871

Option 4 ID : 6306801970869

Status : Answered

Chosen Option : 1

Q.24 The curve that is generally used to avoid the obstructions like hard rocks, deep cuttings, soft gradients is called _____.

- Ans
- ☐ 1. simple curve
 - ☐ 2. transitional curve
 - ☒ 3. compound curve
 - ☐ 4. parabolic curve

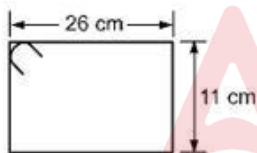
Question ID : 630680509451
 Option 1 ID : 6306801991075
 Option 2 ID : 6306801991076
 Option 3 ID : 6306801991074
 Option 4 ID : 6306801991073
 Status : Answered
 Chosen Option : 4

Q.25 The distance travelled by a vehicle after the application of brakes to a dead stop position is known as:

- Ans
- ☐ 1. distance to react
 - ☐ 2. deacceleration distance
 - ☒ 3. braking distance
 - ☐ 4. stopping distance

Question ID : 630680377342
 Option 1 ID : 6306801470433
 Option 2 ID : 6306801470434
 Option 3 ID : 6306801470431
 Option 4 ID : 6306801470432
 Status : Answered
 Chosen Option : 3

Q.26 Following IS : 2502-1963, determine the approximate total length of bar of 6 mm diameter, measured along centre line, for the stirrup shown in Figure. (Note : Take the given stirrup dimensions in Figure as internal).



- Ans
- ☐ 1. 0.448 m
 - ☒ 2. 0.884 m
 - ☐ 3. 0.848 m
 - ☐ 4. 0.440 m

Question ID : 630680339574
 Option 1 ID : 6306801320817
 Option 2 ID : 6306801320819
 Option 3 ID : 6306801320818
 Option 4 ID : 6306801320820
 Status : Answered
 Chosen Option : 1

Q.27 As per Euler's theory, buckling of the long column occurs when _____.
(Given, P = Applied axial load and P_{cr} = Crippling load by Euler's theory)

- Ans
- ☒ 1. $P = P_{cr}$
 - ☒ 2. $P > P_{cr}$
 - ☒ 3. $P < P_{cr}$
 - ☒ 4. P is of any value

Question ID : 630680338704
Option 1 ID : 6306801317470
Option 2 ID : 6306801317471
Option 3 ID : 6306801317469
Option 4 ID : 6306801317472
Status : Answered
Chosen Option : 2

Q.28 Why are air vessels fitted in reciprocating pumps?

- Ans
- ☒ 1. For increasing the velocity of discharge
 - ☒ 2. For faster discharge
 - ☒ 3. To reduce the head loss due to friction in suction and delivery pipe
 - ☒ 4. For increasing the speed of rotation of the crank

Question ID : 630680328621
Option 1 ID : 6306801278455
Option 2 ID : 6306801278454
Option 3 ID : 6306801278453
Option 4 ID : 6306801278456
Status : Answered
Chosen Option : 1

Q.29 Which of the following conditions followed in making concrete reduces the workability of concrete?

- Ans
- ☒ 1. Higher water-cement ratio in concrete
 - ☒ 2. Use of superplasticisers
 - ☒ 3. Use of round aggregates
 - ☒ 4. Higher aggregate-cement ratio in concrete

Question ID : 630680340615
Option 1 ID : 6306801324901
Option 2 ID : 6306801324903
Option 3 ID : 6306801324902
Option 4 ID : 6306801324904
Status : Answered
Chosen Option : 4

Q.30 The loss of life is maximum if the flood water suddenly enters the inhabited areas at night. The loss of life during the floods is considered as _____ loss.

- Ans
- ☒ 1. intangible
 - ☒ 2. measurable
 - ☒ 3. tangible
 - ☒ 4. huge and tangible

Question ID : 630680504317
Option 1 ID : 6306801970830
Option 2 ID : 6306801970831
Option 3 ID : 6306801970829
Option 4 ID : 6306801970832
Status : Answered
Chosen Option : 1

Q.31 Which of the following statements is correct about measurement of the vertical angle while using a total station?

- Ans
- ☒ 1. An electronic digital theodolite is not able to measure the vertical angle.
 - ☒ 2. It is measured relative to the horizontal direction.
 - ☒ 3. It is usually measured as a zenith angle.
 - ☒ 4. It is measured from the instrument north in the horizontal plane.

Question ID : 630680382412
 Option 1 ID : 6306801490565
 Option 2 ID : 6306801490563
 Option 3 ID : 6306801490564
 Option 4 ID : 6306801490566
 Status : Answered
 Chosen Option : 3

Q.32 Which of the following methods used for finding the slope and deflection of beams is also called the 'method of singularity function'?

- Ans
- ☒ 1. Moment area method
 - ☒ 2. Conjugate beam method
 - ☒ 3. Macaulay's method
 - ☒ 4. Mohr's Theorem method

Question ID : 630680404132
 Option 1 ID : 6306801576014
 Option 2 ID : 6306801576015
 Option 3 ID : 6306801576016
 Option 4 ID : 6306801576017
 Status : Answered
 Chosen Option : 1

Q.33 In an irrigated field, the crop requires 60 cm of water in 15 days, while the effective rainfall during that period is recorded as 15 cm. Find the duty at the head of field. Assume no losses

- Ans
- ☒ 1. 288 ha/cumec
 - ☒ 2. 268 ha/cumec
 - ☒ 3. 278 ha/cumec
 - ☒ 4. 298 ha/cumec

Question ID : 630680504343
 Option 1 ID : 6306801970935
 Option 2 ID : 6306801970936
 Option 3 ID : 6306801970933
 Option 4 ID : 6306801970934
 Status : Answered
 Chosen Option : 1

Q.34 As per IS 1077:1992, the size of standard modular burn clay building bricks is__

- Ans ☒ 1. 19 cm × 9 cm × 9 cm
☒ 2. 25 cm × 19 cm × 9 cm
☒ 3. 22 cm × 15 cm × 10 cm
☒ 4. 19 cm × 18 cm × 18 cm

Question ID : 630680198760
 Option 1 ID : 630680771000
 Option 2 ID : 630680771001
 Option 3 ID : 630680770999
 Option 4 ID : 630680771002
 Status : Answered
 Chosen Option : 1

Q.35 The right limb of height h_2 in the simple u tube manometer containing mercury is open to atmosphere, while the left limb of height h_1 is connected to pipe in which a liquid of specific gravity 1 is flowing with uniform speed with $h_1 < h_2$. This condition gives _____ kind of pressure.

- Ans ☒ 1. negative gauge pressure
☒ 2. positive gauge pressure
☒ 3. atmospheric pressure
☒ 4. absolute pressure

Question ID : 630680412948
 Option 1 ID : 6306801610615
 Option 2 ID : 6306801610616
 Option 3 ID : 6306801610618
 Option 4 ID : 6306801610617
 Status : Answered
 Chosen Option : 3

Q.36 As per IS 456:2000, the minimum cross sectional area of longitudinal reinforcement(irrespective of load requirement) in a RCC column of size 150x300 mm shall NOT be less than____. Consider the limit state method of design.

- Ans ☒ 1. 240 mm²
☒ 2. 360 mm²
☒ 3. 440 mm²
☒ 4. 780 mm²

Question ID : 630680326652
 Option 1 ID : 6306801270685
 Option 2 ID : 6306801270686
 Option 3 ID : 6306801270687
 Option 4 ID : 6306801270688
 Status : Not Answered
 Chosen Option : --

Q.37 Which of the following factors is not accounted in the cost estimation of a reinforced concrete (RC) water tank?

- Ans** ☒ 1. Density of water
☒ 2. Length of water tank
☒ 3. height of water tank
☒ 4. Thickness of RC slab and wall

Question ID : 630680504078
 Option 1 ID : 6306801969873
 Option 2 ID : 6306801969874
 Option 3 ID : 6306801969875
 Option 4 ID : 6306801969876
 Status : Answered
 Chosen Option : 1

Q.38 The markings on the kerbs are painted with which colour to increase user visibility?

- Ans** ☒ 1. Alternate white and yellow
☒ 2. Yellow Only
☒ 3. Black Only
☒ 4. Alternate black and white

Question ID : 630680509068
 Option 1 ID : 6306801989568
 Option 2 ID : 6306801989570
 Option 3 ID : 6306801989567
 Option 4 ID : 6306801989569
 Status : Answered
 Chosen Option : 1

Q.39 In the case of preliminary estimate prepared per unit basis, the service units to be considered for a school and hospital are respectively _____.

- Ans** ☒ 1. bench and ward
☒ 2. classroom and bed
☒ 3. bench and bed
☒ 4. classroom and ward

Question ID : 630680504120
 Option 1 ID : 6306801970044
 Option 2 ID : 6306801970041
 Option 3 ID : 6306801970043
 Option 4 ID : 6306801970042
 Status : Answered
 Chosen Option : 3

Q.40 Identify the INCORRECT statement regarding ready-mix concrete (RMC). Consider that ordinary Portland cement is used for making RMC.

- Ans**
- ☒ 1. Ready-mix concrete in wet condition is transported by using a transit mixer from the batching plant to the construction site.
 - ☒ 2. Ready-mix concrete increases the speed of construction.
 - ☒ 3. Ready-mix concrete packed in bags should be added with a hydration activator while mixing with water.
 - ☒ 4. The mix design of RMC is tailor made to suit the placing methods of the contractor.

Question ID : 630680340573

Option 1 ID : 6306801324735

Option 2 ID : 6306801324733

Option 3 ID : 6306801324736

Option 4 ID : 6306801324734

Status : Answered

Chosen Option : 4

Q.41 The number of days between sowing and harvesting of a crop is called the crop period. Base period is the number of days between the first watering at the time of sowing and the last water before harvesting of a crop. If the base period and the crop period are compared, _____.

- Ans**
- ☒ 1. the base period is much higher than the crop period
 - ☒ 2. the base period is slightly more than the crop period
 - ☒ 3. the base period is slightly less than the crop period
 - ☒ 4. the base period is equal to the crop period

Question ID : 630680504287

Option 1 ID : 6306801970711

Option 2 ID : 6306801970709

Option 3 ID : 6306801970710

Option 4 ID : 6306801970712

Status : Answered

Chosen Option : 3

Q.42 Which of the following methods make use of infra-red lamp in the determination of water content of soils ?

- Ans**
- ☒ 1. Calcium carbide method
 - ☒ 2. Pycnometer method
 - ☒ 3. Alcohol method
 - ☒ 4. Torsional balance method

Question ID : 630680504520

Option 1 ID : 6306801971642

Option 2 ID : 6306801971644

Option 3 ID : 6306801971641

Option 4 ID : 6306801971643

Status : Answered

Chosen Option : 1

Q.43 A reinforced concrete slab must be designed as _____ in order to develop complete the yield line pattern

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

Question ID : 630680398043
 Option 1 ID : 6306801552189
 Option 2 ID : 6306801552186
 Option 3 ID : 6306801552188
 Option 4 ID : 6306801552187
 Status : Answered
 Chosen Option : 3

Q.44 Laminated wood offers several advantages over solid wood. Which of the following is NOT an advantage of laminated wood?

- Ans
- ☒ 1. Structures can be designed with laminated wood based on the required strength and low-grade wood can be positioned accordingly.
 - ☒ 2. It can be used to fabricate large members that are impossible to be made from solid wood.
 - ☒ 3. Individual boards, which are used in laminated wood due to their relative thinness, can be properly dried without checking (cracking) and defects, such as knots, can be removed.
 - ☒ 4. Since laminated wood is glued, wood of only large dimensions can be used, which increases the amount of waste.

Question ID : 630680509684
 Option 1 ID : 6306801991943
 Option 2 ID : 6306801991941
 Option 3 ID : 6306801991942
 Option 4 ID : 6306801991944
 Status : Answered
 Chosen Option : 3

Q.45 Which of the following is/are the main advantage of using a dumpy level in surveying?
 i) Simple to use
 ii) Provides accurate level of reading
 iii) Can be used at night, without light

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

Question ID : 630680382449
 Option 1 ID : 6306801490711
 Option 2 ID : 6306801490712
 Option 3 ID : 6306801490714
 Option 4 ID : 6306801490713
 Status : Answered
 Chosen Option : 1

Q.46 _____ shall be used to strength the beam against the maximum nominal shear stress in a RC beam.

- Ans ☒ 1. shear reinforcement
☒ 2. tension reinforcement
☒ 3. side reinforcement
☒ 4. compression reinforcement

Question ID : 630680398052

Option 1 ID : 6306801552224

Option 2 ID : 6306801552223

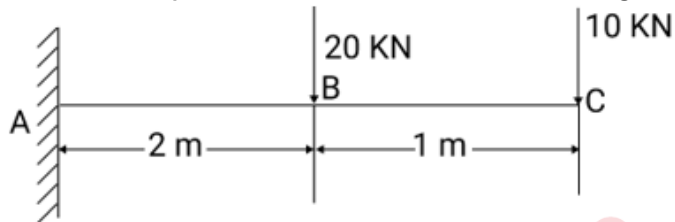
Option 3 ID : 6306801552225

Option 4 ID : 6306801552222

Status : Answered

Chosen Option : 1

Q.47 A cantilever beam subjected to two different point loads is shown in the figure. Calculate the slope at fixed end A. Take 'EI' as constant throughout its length.



- Ans ☒ 1. Zero
☒ 2. $\frac{13.33}{EI}$
☒ 3. $\frac{85}{EI}$
☒ 4. $\frac{105}{EI}$

Question ID : 630680404130

Option 1 ID : 6306801576009

Option 2 ID : 6306801576006

Option 3 ID : 6306801576007

Option 4 ID : 6306801576008

Status : Answered

Chosen Option : 2

Q.48 As per IS: 1562-1962, the 'Diagonal Scale - A' has a graduated length of _____.

- Ans ☒ 1. 0.15 cm
☒ 2. 150 cm
☒ 3. 15 cm
☒ 4. 1.5 cm

Question ID : 630680506235

Option 1 ID : 6306801978460

Option 2 ID : 6306801978457

Option 3 ID : 6306801978458

Option 4 ID : 6306801978459

Status : Not Answered

Chosen Option : --

Q.49 In case of absorption test on burnt clay building bricks as per IS 3495 (part 2);1992, bricks shall be soaked in cold water for a duration of_____.

- Ans
- ☒ 1. 16 hours
 - ☒ 2. 24 hours
 - ☒ 3. 12 hours
 - ☒ 4. 9 hours

Question ID : 630680198663
Option 1 ID : 630680770614
Option 2 ID : 630680770611
Option 3 ID : 630680770612
Option 4 ID : 630680770613
Status : Answered
Chosen Option : 2

Q.50 What is the maximum limit of grade compensation for the gradient on the horizontal curve along highways, if 'R' is the radius of the circular curve in metres?

- Ans
- ☒ 1. $\frac{50}{R}$
 - ☒ 2. $\frac{75}{R}$
 - ☒ 3. $\frac{150}{R}$
 - ☒ 4. $\frac{300}{R}$

Question ID : 630680191617
Option 1 ID : 630680743091
Option 2 ID : 630680743089
Option 3 ID : 630680743090
Option 4 ID : 630680743092
Status : Answered
Chosen Option : 4

Q.51 The effective length ratio 'K' for a column in frame with no sideways is limited between:

- Ans
- ☒ 1. 0 and 1.0
 - ☒ 2. 0 and 0.5
 - ☒ 3. 0.5 and 1.0
 - ☒ 4. 0.25 and 0.5

Question ID : 630680509668
Option 1 ID : 6306801991880
Option 2 ID : 6306801991877
Option 3 ID : 6306801991879
Option 4 ID : 6306801991878
Status : Not Answered
Chosen Option : --

Q.52 What is the best side slope (n) for the most economic trapezoidal channel having depth d and base width b?

- Ans
- ☒ 1. $\sqrt{3}$
 - ☒ 2. $\frac{1}{\sqrt{2}}$
 - ☒ 3. $\frac{1}{\sqrt{3}}$
 - ☒ 4. $\sqrt{2}$

Question ID : 630680385057

Option 1 ID : 6306801501114

Option 2 ID : 6306801501116

Option 3 ID : 6306801501115

Option 4 ID : 6306801501117

Status : Answered

Chosen Option : 3

Q.53 A school building of 15 classrooms is to be constructed and the cost of construction of the school in terms of per classroom is ₹1,50,000. Calculate the approximate cost of the proposed school building.

- Ans
- ☒ 1. ₹30,00,000
 - ☒ 2. ₹22,50,000
 - ☒ 3. ₹20,00,000
 - ☒ 4. ₹42,50,000

Question ID : 630680504119

Option 1 ID : 6306801970038

Option 2 ID : 6306801970037

Option 3 ID : 6306801970039

Option 4 ID : 6306801970040

Status : Answered

Chosen Option : 2

Q.54 Identify the correct characteristic feature of scale choosen to draw profile of ground using profile leveling data

- Ans
- ☒ 1. Vertical distances are exaggerated as compared to horizontal distances.
 - ☒ 2. Both horizontal and vertical distances are always plotted to 1 : 1 scale.
 - ☒ 3. Horizontal distances are exaggerated as compared to vertical distances.
 - ☒ 4. Both horizontal and vertical distances are plotted to the same scale.

Question ID : 630680506227

Option 1 ID : 6306801978427

Option 2 ID : 6306801978428

Option 3 ID : 6306801978426

Option 4 ID : 6306801978425

Status : Answered

Chosen Option : 2

Q.55 A Moody diagram represents _____ as a function of Reynolds number, in a pipe flow.

- Ans
- ☒ 1. Length of pipe
 - ☒ 2. friction factor
 - ☒ 3. Kinetic head
 - ☒ 4. Flow velocity

Question ID : 630680506987

Option 1 ID : 6306801981455

Option 2 ID : 6306801981454

Option 3 ID : 6306801981456

Option 4 ID : 6306801981453

Status : Answered

Chosen Option : 3

Q.56 Based on Allen-Hazens experiments, the co-efficient of permeability k (cm/s) is related to the effective size of soil D_{10} (cm) as _____. (where C is a constant with a value between 100 and 150).

- Ans
- ☒ 1. $k = C/D_{10}^2$
 - ☒ 2. $k = D_{10}/C^2$
 - ☒ 3. $k = CD_{10}^2$
 - ☒ 4. $k = C^2 D_{10}$

Question ID : 630680504562

Option 1 ID : 6306801971810

Option 2 ID : 6306801971812

Option 3 ID : 6306801971809

Option 4 ID : 6306801971811

Status : Answered

Chosen Option : 3

Q.57 Select the option that is appropriate regarding the following two statements pertaining to lining of canals, labelled as Assertion and Reason.

Assertion: The expenditure on lining depends on the availability of construction materials and transportation charges.

Reason: To reduce the expenditure on lining, materials which are available in the vicinity of the project should be utilised.

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

Question ID : 630680504333

Option 1 ID : 6306801970893

Option 2 ID : 6306801970896

Option 3 ID : 6306801970894

Option 4 ID : 6306801970895

Status : Answered

Chosen Option : 3

Q.58 Which of the following estimates mostly resembles a detailed estimate ?

- Ans ☒ 1. Annual maintenance estimate
☒ 2. Rough estimate
☒ 3. Item rate estimate
☒ 4. Quantity estimate

Question ID : 630680504088
 Option 1 ID : 6306801969913
 Option 2 ID : 6306801969916
 Option 3 ID : 6306801969915
 Option 4 ID : 6306801969914
 Status : Answered
 Chosen Option : 4

Q.59 The specific gravity of most of the stones lies between _____.

- Ans ☒ 1. 2 and 3
☒ 2. 3.5 and 4
☒ 3. 3 and 3.5
☒ 4. 1 and 2

Question ID : 630680509697
 Option 1 ID : 6306801991994
 Option 2 ID : 6306801991996
 Option 3 ID : 6306801991995
 Option 4 ID : 6306801991993
 Status : Answered
 Chosen Option : 1

Q.60 When pipes of different diameters are connected in series from end to end to form a pipe line, the total head loss developed is equal to____

- Ans ☒ 1. Zero
☒ 2. sum of major head losses in each pipe
☒ 3. Sum of local head losses only
☒ 4. Sum of local head losses and major head losses in each pipe

Question ID : 630680506978
 Option 1 ID : 6306801981420
 Option 2 ID : 6306801981418
 Option 3 ID : 6306801981417
 Option 4 ID : 6306801981419
 Status : Answered
 Chosen Option : 4

Q.61 Which of the following statements regarding the vertical circle of a theodolite is correct?

- Ans ☒ 1. Both the graduation circle and the Vernier scale move with the telescope.
☒ 2. Both the graduation circle and the Vernier scale are fixed, while the telescope moves.
☒ 3. The graduation circle is fixed, but the Vernier scale moves with the telescope.
☒ 4. The Vernier scale is fixed, but the graduation circle moves with the telescope.

Question ID : 630680506218
 Option 1 ID : 6306801978391
 Option 2 ID : 6306801978392
 Option 3 ID : 6306801978390
 Option 4 ID : 6306801978389
 Status : Answered
 Chosen Option : 4

Q.62 For a project, which of the following estimate is accorded sanction in a Technical sanction ?

- Ans
- ☐ 1. Preliminary estimate
 - ☐ 2. Abstract estimate
 - ☒ 3. Detailed estimate
 - ☐ 4. Approximate estimate

Question ID : 630680504136
 Option 1 ID : 6306801970107
 Option 2 ID : 6306801970108
 Option 3 ID : 6306801970105
 Option 4 ID : 6306801970106
 Status : Answered
 Chosen Option : 3

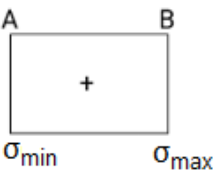
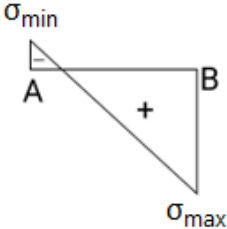
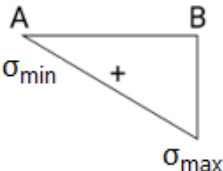
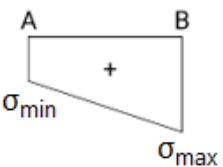
Q.63 Which of the following is a type of detailed estimate?

- Ans
- ☐ 1. Service unit method
 - ☐ 2. Cubical content method
 - ☐ 3. Plinth area rate method
 - ☒ 4. Revised estimate

Question ID : 630680211778
 Option 1 ID : 630680821259
 Option 2 ID : 630680821260
 Option 3 ID : 630680821261
 Option 4 ID : 630680821262
 Status : Answered
 Chosen Option : 1

Q.64 Which of the following stress distribution diagrams represents the condition where the intensity of direct stress is less than the intensity of bending stress?
Where σ_{\min} is minimum resultant stress and σ_{\max} is maximum resultant stress.

Ans

- ✗ 1. 
- ✓ 2. 
- ✗ 3. 
- ✗ 4. 

Question ID : 630680404087
Option 1 ID : 6306801575834
Option 2 ID : 6306801575837
Option 3 ID : 6306801575836
Option 4 ID : 6306801575835

Status : Answered

Chosen Option : 3

Q.65 Among the following factors that can cause an error during distance measurement in chaining, the compensating error is caused by _____.

Ans ✓ 1. careless holding and marking

- ✗ 2. sag in chain
✗ 3. bad ranging
✗ 4. variation in temperature

Question ID : 630680506214
Option 1 ID : 6306801978376
Option 2 ID : 6306801978374
Option 3 ID : 6306801978373
Option 4 ID : 6306801978375

Status : Answered

Chosen Option : 4

Q.66 Which of the following statements about soil pollution is INCORRECT?

- Ans**
- ☒ 1. Storing surplus rainwater by constructing bunds, ponds, etc. belongs to the category of area treatment method.
 - ☒ 2. In temperate regions, DDT has a half-life of 10–15 years.
 - ☒ 3. Irrigation water can cause salinisation of soil.
 - ☒ 4. The area treatment method to prevent soil erosion involves treating the natural water courses.

Question ID : 630680509507

Option 1 ID : 6306801991300

Option 2 ID : 6306801991298

Option 3 ID : 6306801991297

Option 4 ID : 6306801991299

Status : Answered

Chosen Option : 3

Q.67 Which property of concrete makes it advantageous for construction of bridges?

- Ans**
- ☒ 1. High compressive strength
 - ☒ 2. Low durability
 - ☒ 3. Low thermal conductivity
 - ☒ 4. Low tensile strength

Question ID : 630680357647

Option 1 ID : 6306801392579

Option 2 ID : 6306801392578

Option 3 ID : 6306801392580

Option 4 ID : 6306801392577

Status : Answered

Chosen Option : 1

Q.68 If the value of Poisson's ratio for a material is given as 0.35, then the elastic constants are related to each other as:

- Ans**
- ☒ 1. $E = 1.3G$
 - ☒ 2. $K = 0.9E$
 - ☒ 3. $E = 2.7G$
 - ☒ 4. $G = 2.7E$

Question ID : 630680509119

Option 1 ID : 6306801989771

Option 2 ID : 6306801989773

Option 3 ID : 6306801989774

Option 4 ID : 6306801989772

Status : Not Answered

Chosen Option : --

Q.69 Which of the following type of coarse aggregate is preferred in road construction, so that greatest density of road layer is achieved?

- Ans
- ☐ 1. Any type of aggregates
 - ☐ 2. Single-size aggregates
 - ☐ 3. porous aggregates
 - ☒ 4. All-in aggregates

Question ID : 630680357659
 Option 1 ID : 6306801392628
 Option 2 ID : 6306801392626
 Option 3 ID : 6306801392627
 Option 4 ID : 6306801392625
 Status : Answered
 Chosen Option : 2

Q.70 A direct runoff hydrograph of triangular shape, caused by a storm, has a time base of 100 hours and the peak flow of 50 cumec occurring at 30 hours from the start. If the catchment area is 150 km², the rainfall excess of the storm was _____.

- Ans
- ☐ 1. 5.6 cm
 - ☐ 2. 6.8 cm
 - ☐ 3. 7.2 cm
 - ☒ 4. 6 cm

Question ID : 630680504306
 Option 1 ID : 6306801970786
 Option 2 ID : 6306801970788
 Option 3 ID : 6306801970785
 Option 4 ID : 6306801970787
 Status : Not Answered
 Chosen Option : --

Q.71 Find the correct statement regarding the assumption of limit state design under compression member as per IS 456:2000.

- Ans
- ☐ 1. The minimum compressive strain in concrete in axial compression is 0.002.
 - ☐ 2. The minimum compressive strain in concrete in axial compression is 0.0002.
 - ☒ 3. The maximum compressive strain in concrete in axial compression is 0.002.
 - ☐ 4. The maximum compressive strain in concrete in axial compression is 0.02.

Question ID : 630680509667
 Option 1 ID : 6306801991873
 Option 2 ID : 6306801991874
 Option 3 ID : 6306801991876
 Option 4 ID : 6306801991875
 Status : Answered
 Chosen Option : 1

Q.72 Bernoulli's equation is applicable for:

- Ans ☒ 1. incompressible fluids
☒ 2. viscous fluids
☒ 3. compressible fluids
☒ 4. rotational fluids

Question ID : 630680506972
 Option 1 ID : 6306801981396
 Option 2 ID : 6306801981394
 Option 3 ID : 6306801981393
 Option 4 ID : 6306801981395
 Status : Answered
 Chosen Option : 1

Q.73 Identify the canal regulation structure, used for closing the supply to the downstream of the parent canal during repairs.

- Ans ☒ 1. cross regulator
☒ 2. distributary regulator
☒ 3. head regulator
☒ 4. stream regulator

Question ID : 630680504292
 Option 1 ID : 6306801970730
 Option 2 ID : 6306801970732
 Option 3 ID : 6306801970729
 Option 4 ID : 6306801970731
 Status : Answered
 Chosen Option : 1

Q.74 Streams passing through peaty land possess _____ colour.

- Ans ☒ 1. black
☒ 2. blue
☒ 3. brown
☒ 4. yellow

Question ID : 630680509500
 Option 1 ID : 6306801991270
 Option 2 ID : 6306801991272
 Option 3 ID : 6306801991271
 Option 4 ID : 6306801991269
 Status : Answered
 Chosen Option : 3

Q.75 Which of the following can be used as an alternative for the blast furnace in the steel manufacturing industry for energy saving?

- Ans ☒ 1. Pulverised coal injection
☒ 2. Programmed coke heating
☒ 3. Heat recovery from hot sinter
☒ 4. Dry quenching

Question ID : 630680509513
 Option 1 ID : 6306801991321
 Option 2 ID : 6306801991322
 Option 3 ID : 6306801991324
 Option 4 ID : 6306801991323
 Status : Answered
 Chosen Option : 4

Q.76 Which of the following statements represent(s) advantages of the separate system of sewerage?

Statement I: The load on treatment units becomes less.

Statement II: Sewers are large in diameter.

Statement III: Maintenance costs are reasonable.

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

Question ID : 630680509473

Option 1 ID : 6306801991164

Option 2 ID : 6306801991163

Option 3 ID : 6306801991161

Option 4 ID : 6306801991162

Status : Answered

Chosen Option : 3

Q.77 The following are different factors that affect the diurnal variation in magnetic declination. The condition which may result in the maximum variation is

- Ans
- ☒ 1. at the Equator during summer
 - ☒ 2. at the Magnetic Poles during summer
 - ☒ 3. at the Equator during winter
 - ☒ 4. at the Magnetic Poles during winter

Question ID : 630680506232

Option 1 ID : 6306801978445

Option 2 ID : 6306801978446

Option 3 ID : 6306801978447

Option 4 ID : 6306801978448

Status : Answered

Chosen Option : 2

Q.78 Which of the following statements about the Noise Pollution (Regulation and Control) Rules, 2000, under the Environment Protection Act, 1986, is INCORRECT?

- Ans
- ☒ 1. The day time and night time limits of noise in commercial areas are 75 dB and 70 dB, respectively.
 - ☒ 2. Day time shall mean the period from 6.00 a.m. to 10.00 p.m.
 - ☒ 3. There are three categories of zones.
 - ☒ 4. Silence zone is an area comprising not less than 100 m around hospitals, etc.

Question ID : 630680509508

Option 1 ID : 6306801991302

Option 2 ID : 6306801991304

Option 3 ID : 6306801991301

Option 4 ID : 6306801991303

Status : Answered

Chosen Option : 4

Q.79 Calculate the design stress for a steel grade Fe-415 after applying necessary factor of safety, in case of design of RCC members in accordance with limit state design.

- Ans
- ☒ 1. 415 N/mm²
 - ☒ 2. 435 N/mm²
 - ☒ 3. 217.5 N/mm²
 - ☒ 4. 361.05 N/mm²

Question ID : 630680377292

Option 1 ID : 6306801470231

Option 2 ID : 6306801470234

Option 3 ID : 6306801470233

Option 4 ID : 6306801470232

Status : Answered

Chosen Option : 1

Q.80 Which of the following term is used to express the process of water coming out from the concrete and accumulate at the surface of concrete during compaction?

- Ans
- ☒ 1. Bleeding
 - ☒ 2. Permeability
 - ☒ 3. Seepage
 - ☒ 4. Efflorescence

Question ID : 630680191311

Option 1 ID : 630680741885

Option 2 ID : 630680741886

Option 3 ID : 630680741888

Option 4 ID : 630680741887

Status : Answered

Chosen Option : 1

Q.81 Identify different stages in the treatment of sewage.

- Ans
- ☒ 1. Primary treatment and disinfection
 - ☒ 2. Primary treatment and secondary treatment
 - ☒ 3. Disinfection and secondary treatment
 - ☒ 4. Primary treatment, secondary treatment and disinfection

Question ID : 630680509503

Option 1 ID : 6306801991284

Option 2 ID : 6306801991282

Option 3 ID : 6306801991283

Option 4 ID : 6306801991281

Status : Answered

Chosen Option : 4

Q.82 As per IS 456 : 2000, the design strength of a short axially loaded compression member is expressed as _____. Where, f_y =characteristic strength of the compression reinforcement, A_{sc} =area of longitudinal reinforcement for columns, f_{ck} =characteristic compressive strength of the concrete, A_c =Area of concrete.

- Ans
- ☒ 1. $[0.87 f_{ck} A_c + f_{sc} A_{sc}]$
 - ☒ 2. $[0.45 f_{sc} A_{sc} + f_{ck} A_c]$
 - ☒ 3. $[0.87 f_{sc} A_{sc} + f_{ck} A_c]$
 - ☒ 4. $[0.4 f_{ck} A_c + 0.67 f_y A_{sc}]$

Question ID : 630680398037
 Option 1 ID : 6306801552165
 Option 2 ID : 6306801552162
 Option 3 ID : 6306801552163
 Option 4 ID : 6306801552164
 Status : Answered
 Chosen Option : 3

Q.83 Which of the following methods of transportation of concrete is useful for transporting the concrete to a relatively greater distance from batching plant?

- Ans
- ☒ 1. Pump and pipe line
 - ☒ 2. Crane and bucket method
 - ☒ 3. Transit mixer
 - ☒ 4. Wheel barrow

Question ID : 630680388965
 Option 1 ID : 6306801516324
 Option 2 ID : 6306801516325
 Option 3 ID : 6306801516322
 Option 4 ID : 6306801516323
 Status : Answered
 Chosen Option : 3

Q.84 The tangent drawn to the instantaneous velocity in a flow field is called:

- Ans
- ☒ 1. timeline
 - ☒ 2. streamline
 - ☒ 3. pathline
 - ☒ 4. streakline

Question ID : 630680506961
 Option 1 ID : 6306801981352
 Option 2 ID : 6306801981351
 Option 3 ID : 6306801981349
 Option 4 ID : 6306801981350
 Status : Answered
 Chosen Option : 2

Q.85 As per IS 2770(part I), the load at failure in a pull out test was found to be 180 kN. Calculate the bond strength if the bar diameter is 20 mm and its embedded length into concrete is 300 mm.

- Ans
- ☒ 1. $\frac{50}{\pi}$ N/mm²
 - ☒ 2. $\frac{10}{\pi}$ N/mm²
 - ☒ 3. $\frac{30}{\pi}$ N/mm²
 - ☒ 4. $\frac{15}{\pi}$ N/mm²

Question ID : 630680326657
 Option 1 ID : 6306801270708
 Option 2 ID : 6306801270706
 Option 3 ID : 6306801270705
 Option 4 ID : 6306801270707
 Status : Answered
 Chosen Option : 3

Q.86 Which of the piles is used for compacting loose granular soil?

- Ans
- ☒ 1. Friction piles
 - ☒ 2. Compaction piles
 - ☒ 3. End bearing piles
 - ☒ 4. Tension piles

Question ID : 630680504102
 Option 1 ID : 6306801969972
 Option 2 ID : 6306801969970
 Option 3 ID : 6306801969969
 Option 4 ID : 6306801969971
 Status : Answered
 Chosen Option : 1

Q.87 Which of the following property of water makes the raindrops to form roughly spherical structure?

- Ans
- ☒ 1. air resistance
 - ☒ 2. atmospheric pressure
 - ☒ 3. surface tension
 - ☒ 4. Acceleration due to gravity

Question ID : 630680506951
 Option 1 ID : 6306801981310
 Option 2 ID : 6306801981311
 Option 3 ID : 6306801981312
 Option 4 ID : 6306801981309
 Status : Answered
 Chosen Option : 3

Q.88 Which of the following pairs of parameters of drinking water and their desirable limits is correctly matched (as per IS 10500: 1991)?

- Ans
- ☒ 1. Iron – 0.5 mg/l
 - ☒ 2. Chlorides – 250 mg/l
 - ☒ 3. Fluorides – 0.5 mg/l
 - ☒ 4. pH – 7

Question ID : 630680509467

Option 1 ID : 6306801991138

Option 2 ID : 6306801991140

Option 3 ID : 6306801991139

Option 4 ID : 6306801991137

Status : Answered

Chosen Option : 4

Q.89 The suitability for a particular type of foundation does NOT depend upon the _____.

- Ans
- ☒ 1. magnitude of loads
 - ☒ 2. type of soil
 - ☒ 3. Optimum moisture content (OMC) of soil
 - ☒ 4. depth of ground water table

Question ID : 630680181875

Option 1 ID : 630680704735

Option 2 ID : 630680704736

Option 3 ID : 630680704737

Option 4 ID : 630680704734

Status : Answered

Chosen Option : 4

Q.90 Which of the following is not a functional charecteristics of kerbs used in road construction?

- Ans
- ☒ 1. Protects the pavement edge
 - ☒ 2. Presents a more finished appearance
 - ☒ 3. provides cross slope to the pavement so that immediate drainage of water takes place
 - ☒ 4. acts as a boundary between the pavement and the footpath.

Question ID : 630680198264

Option 1 ID : 630680769227

Option 2 ID : 630680769230

Option 3 ID : 630680769229

Option 4 ID : 630680769228

Status : Answered

Chosen Option : 3

Q.91 A rectangular RCC beam section having a width of 200 mm and depth of 300 mm is subjected to a factored shear force of 60 kN. Determine the nominal shear stress acting in the section if the effective cover is 50 mm and grade of concrete is M 20 and the grade of steel is Fe 415.

- Ans ☒ 1. 1.2 N/mm^2
☒ 2. 1.4 N/mm^2
☒ 3. 1 N/mm^2
☒ 4. 0.86 N/mm^2

Question ID : 630680509647
 Option 1 ID : 6306801991794
 Option 2 ID : 6306801991796
 Option 3 ID : 6306801991793
 Option 4 ID : 6306801991795
 Status : Not Answered
 Chosen Option : --

Q.92 Assuming the stress block diagram of the rectangular concrete beam section as per IS 456-2000, the depth of the centre of compressive force measured from the neutral axis is given by: (Assuming X_u as the depth of neutral axis from top compression fiber)

- Ans ☒ 1. $0.58 X_u$
☒ 2. $0.36 X_u$
☒ 3. $0.67 X_u$
☒ 4. $0.42 X_u$

Question ID : 630680509662
 Option 1 ID : 6306801991855
 Option 2 ID : 6306801991854
 Option 3 ID : 6306801991856
 Option 4 ID : 6306801991853
 Status : Answered
 Chosen Option : 2

Q.93 Which of the given procedures should be followed before applying paint onto different components of a building?

- i) Chalking
 ii) Flaking
 iii) Removing blisters
 iv) Surface wetting

- Ans ☒ 1. Only (i)
☒ 2. (ii) and (iii)
☒ 3. (i), (ii) and (iii)
☒ 4. All of (i), (ii), (iii) and (iv)

Question ID : 630680509703
 Option 1 ID : 6306801992017
 Option 2 ID : 6306801992018
 Option 3 ID : 6306801992019
 Option 4 ID : 6306801992020
 Status : Answered
 Chosen Option : 3

Q.94 Modern electronic distance measurement (EDM) measures distance by _____

- Ans ☒ 1. measurement of wave travel time
- ☒ 2. measurement of phase difference between transmitted and reflected signals
- ☒ 3. measurement of velocity of infra-red signals
- ☒ 4. measurement by invar tape

Question ID : 630680506246
Option 1 ID : 6306801978502
Option 2 ID : 6306801978501
Option 3 ID : 6306801978504
Option 4 ID : 6306801978503
Status : Answered
Chosen Option : 2

Q.95 For a given open channel, if the Chezy's coefficient (C) is decreased, then how will it affect the discharge (Q) of the flow?

- Ans ☒ 1. Q will decrease
- ☒ 2. Q will become zero
- ☒ 3. Q will remain constant
- ☒ 4. Q will increase

Question ID : 630680385050
Option 1 ID : 6306801501086
Option 2 ID : 6306801501089
Option 3 ID : 6306801501088
Option 4 ID : 6306801501087
Status : Answered
Chosen Option : 1

Q.96 Timber which are slow and difficult to season free from defects, are classified as based upon their behaviour to cracking and splitting during normal air-seasoning practice.

- Ans ☒ 1. Low refractory
- ☒ 2. High refractory
- ☒ 3. Moderate refractory
- ☒ 4. Null refractory

Question ID : 630680509688
Option 1 ID : 6306801991959
Option 2 ID : 6306801991957
Option 3 ID : 6306801991958
Option 4 ID : 6306801991960
Status : Answered
Chosen Option : 2

Q.97 Linear strains along X, Y and Z directions in an object with homogenous material are given as 0.05, 0.10 and 0.10, respectively. The size of the object before deformation was 20 cm × 10 cm × 10 cm. Determine the volumetric strain and change in volume of the material after deformation.

- Ans
- ☒ 1. Volumetric strain = 0.25, change in volume = 500 mm³
 - ☒ 2. Volumetric strain = 0.3, change in volume = 60 × 10⁴ mm³
 - ☒ 3. Volumetric strain = 0.25, change in volume = 5 × 10⁵ mm³
 - ☒ 4. Volumetric strain = 0.7, change in volume = 1400 cm³

Question ID : 630680509114
 Option 1 ID : 6306801989752
 Option 2 ID : 6306801989753
 Option 3 ID : 6306801989754
 Option 4 ID : 6306801989751
 Status : Not Answered
 Chosen Option : --

Q.98 Match the following markings drawn on the carriage way with their significances.

S. No.	Type of Line	S. No.	Significance
A	Double longitudinal solid lines	1	Guiding and regulating line
B	Broken longitudinal lines	2	Edge line
C	Solid longitudinal lines	3	Indicate centre line or lane-marking for multi-lane roads
		4	Indicate maximum restriction and are only to be crossed in case of emergency

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

Question ID : 630680509071
 Option 1 ID : 6306801989581
 Option 2 ID : 6306801989579
 Option 3 ID : 6306801989580
 Option 4 ID : 6306801989582
 Status : Answered
 Chosen Option : 2

Q.99 Which of the following type of cement is preferred for concrete making which is used in construction of sewage treatment plants located where, soil is infested with sulphates?

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

Question ID : 630680503291
 Option 1 ID : 6306801966750
 Option 2 ID : 6306801966751
 Option 3 ID : 6306801966749
 Option 4 ID : 6306801966752
 Status : Answered
 Chosen Option : 2

Q.100 Select the option that is appropriate regarding the following two statements labelled Assertion and Reason.
 Assertion: Proper deep ploughing, which is done by tractors, requires overall less quality of water and hence, the duty is high.
 Reason: Ploughing should be done properly and deeply so that the moisture-retaining capacity of the soil is increased.

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

Question ID : 630680504342
 Option 1 ID : 6306801970931
 Option 2 ID : 6306801970930
 Option 3 ID : 6306801970932
 Option 4 ID : 6306801970929
 Status : Answered
 Chosen Option : 4

