

Junior Engineer Civil Mechanical and Electrical Examination 2024 Paper I

Roll Number	
Candidate Name	
Venue Name	
Exam Date	05/06/2024
Exam Time	9:00 AM - 11:00 AM
Subject	Junior Engineer 2024 Civil Paper I

Section : General Intelligence and Reasoning

Q.1 Which numbers should come in place of the two question marks '?' in the same sequence to make the series logically complete?
2, 3, 5, 8, 13, ?, 34, ?

Ans ☒ 1. 21, 55

☒ 2. 19, 53

☒ 3. 22, 56

☒ 4. 20, 54

Question ID : 630680388868
Option 1 ID : 6306801515937
Option 2 ID : 6306801515935
Option 3 ID : 6306801515934
Option 4 ID : 6306801515936
Status : Answered
Chosen Option : 1

Q.2 What should come in place of the question mark (?) in the given series?
82, 83, 80, 81, 78, ?

Ans ☒ 1. 81

☒ 2. 77

☒ 3. 79

☒ 4. 76

Question ID : 630680387691
Option 1 ID : 6306801511417
Option 2 ID : 6306801511415
Option 3 ID : 6306801511416
Option 4 ID : 6306801511414
Status : Answered
Chosen Option : 3

Q.3 11 is related to 66 following a certain logic. Following the same logic, 22 is related to 132. To which of the following is 41 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. 250

☒ 2. 246

☒ 3. 248

☒ 4. 242

Question ID : 630680403569

Option 1 ID : 6306801573784

Option 2 ID : 6306801573782

Option 3 ID : 6306801573785

Option 4 ID : 6306801573783

Status : Answered

Chosen Option : 2

Q.4 In a certain code language,
'K + L' means 'K is the mother of L',
'K – L' means 'K is the sister of L',
'K × L' means 'K is the husband of L',
'K ÷ L' means 'K is the father of L'.
How is R related to U if 'P × Q – R ÷ S + T – U'?

Ans ☒ 1. son

☒ 2. Father's father

☒ 3. father

☒ 4. Mother's father

Question ID : 630680377895

Option 1 ID : 6306801472641

Option 2 ID : 6306801472642

Option 3 ID : 6306801472640

Option 4 ID : 6306801472639

Status : Answered

Chosen Option : 4

Q.5 In a certain code language, 'don't worry you' is coded as 'ab kl gy' and 'you have no' is coded as 'gy ad mn'. How is 'you' coded in the given language?

Ans ☒ 1. gy

☒ 2. mn

☒ 3. ab

☒ 4. kl

Question ID : 630680377687

Option 1 ID : 6306801471809

Option 2 ID : 6306801471810

Option 3 ID : 6306801471807

Option 4 ID : 6306801471808

Status : Answered

Chosen Option : 1

Q.6 L, A, N, T, E, R, and S are sitting around a circular table, facing the centre (not necessarily in the same order). L sits third to the right of E. E sits second to the right of T. S sits third to the left of T. N sits third to the left of A. Who is sitting to the immediate left of A?

- Ans ☒ 1. E
☒ 2. T
☒ 3. L
☒ 4. N

Question ID : 630680377626
Option 1 ID : 6306801471565
Option 2 ID : 6306801471564
Option 3 ID : 6306801471563
Option 4 ID : 6306801471566
Status : Answered
Chosen Option : 3

Q.7 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.)
(48, 23, 47)
(22, 27, 38)

- Ans ☒ 1. (14, 30, 41)
☒ 2. (26, 14, 32)
☒ 3. (16, 31, 39)
☒ 4. (18, 22, 28)

Question ID : 630680376818
Option 1 ID : 6306801468337
Option 2 ID : 6306801468336
Option 3 ID : 6306801468335
Option 4 ID : 6306801468338
Status : Not Answered
Chosen Option : --

Q.8 उस सही विकल्प का चयन कीजिए जो निम्नलिखित शब्दों की व्यवस्था को तार्किक और सार्थक क्रम में दर्शाता है।
1. जड़
2. शाखा
3. टहनी
4. तना
5. पत्ती

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

Question ID : 630680565840
Option 1 ID : 6306802212318
Option 2 ID : 6306802212316
Option 3 ID : 6306802212317
Option 4 ID : 6306802212319
Status : Answered
Chosen Option : 1

Q.9 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 lions are tigers. All lions are pigeons. All tigers are apes.

Conclusions:

(I) All pigeons are apes.

(II) At least some tigers are pigeons.

Ans ✓ 1. Only conclusion (II) follows.

✗ 2. Both conclusions (I) and (II) follow.

✗ 3. Only conclusion (I) follows.

✗ 4. Neither conclusion (I) nor (II) follows.

Question ID : 630680376865

Option 1 ID : 6306801468524

Option 2 ID : 6306801468526

Option 3 ID : 6306801468523

Option 4 ID : 6306801468525

Status : Answered

Chosen Option : 2

Q.10 14 is related to 42 following a certain logic. Following the same logic, 25 is related to 75. To which of the following is 44 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. 133

✓ 2. 132

✗ 3. 131

✗ 4. 134

Question ID : 630680407837

Option 1 ID : 6306801590288

Option 2 ID : 6306801590286

Option 3 ID : 6306801590287

Option 4 ID : 6306801590289

Status : Answered

Chosen Option : 2

Q.11 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
YXB, FEI, MLP, TSW, AZD, ?

Ans ✓ 1. HGK

✗ 2. HKL

✗ 3. GKM

✗ 4. JKL

Question ID : 630680378629

Option 1 ID : 6306801475565

Option 2 ID : 6306801475564

Option 3 ID : 6306801475563

Option 4 ID : 6306801475566

Status : Answered

Chosen Option : 1

Q.12 13 is related to 190 following a certain logic. Following the same logic, 10 is related to 145. To which of the following is 20 related following the same logic?
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans ☒ 1. 295

☐ 2. 298

☐ 3. 290

☐ 4. 294

Question ID : **630680451709**

Option 1 ID : **6306801763922**

Option 2 ID : **6306801763923**

Option 3 ID : **6306801763924**

Option 4 ID : **6306801763925**

Status : **Answered**

Chosen Option : 1

Q.13 Pillar E is to the east of Pillar D. Pillar A is to the west of Pillar D. Pillar B is to the north of Pillar A. Pillar C is to the south of Pillar A. Pillar E is to the south of F. Pillar G is to the South of E. What is the position of Pillar F with respect to Pillar C?

Ans ☐ 1. South - West

☐ 2. North

☒ 3. North – East

☐ 4. South

Question ID : **630680382481**

Option 1 ID : **6306801490842**

Option 2 ID : **6306801490839**

Option 3 ID : **6306801490840**

Option 4 ID : **6306801490841**

Status : **Answered**

Chosen Option : 3

Q.14 Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern.



Ans



Question ID : 630680525604
 Option 1 ID : 6306802054503
 Option 2 ID : 6306802054500
 Option 3 ID : 6306802054501
 Option 4 ID : 6306802054502

Status : Answered

Chosen Option : 1

Q.15 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
 BFA, EIE, HLI, KOM, NRQ, ?

Ans ✗ 1. QVV

✓ 2. QUU

✗ 3. QUV

✗ 4. QVW

Question ID : 630680378786
 Option 1 ID : 6306801476193
 Option 2 ID : 6306801476192
 Option 3 ID : 6306801476191
 Option 4 ID : 6306801476194

Status : Answered

Chosen Option : 2

Q.16 A, B, C, D, P, Q, and R are sitting around a circular table, facing the centre (not necessarily in the same order) .R sits fourth to the left of B. D sits second to the right of B.A is an immediate neighbour of B and D. Q sits third to the left of A.P is an immediate neighbour of Q and R.
Who is sitting third to the right of R?

Ans  1. C

 2. A

 3. D

 4. Q

Question ID : 630680376656

Option 1 ID : 6306801467688

Option 2 ID : 6306801467690

Option 3 ID : 6306801467687

Option 4 ID : 6306801467689

Status : Answered


Chosen Option : 1

Q.17 The position(s) of how many letters will remain unchanged if each of the letters in the word REWINDS is arranged in the English alphabetical order?

Ans  1. Zero

 2. Three

 3. One

 4. Two

Question ID : 630680396637

Option 1 ID : 6306801546644

Option 2 ID : 6306801546645

Option 3 ID : 6306801546646

Option 4 ID : 6306801546647

Status : Answered

Chosen Option : 3

Q.18 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

TOJ, NID, HCX, BWR, ?

Ans  1. VQL

 2. VLQ

 3. QLV

 4. QVL

Question ID : 630680528609

Option 1 ID : 6306802066445

Option 2 ID : 6306802066446

Option 3 ID : 6306802066447

Option 4 ID : 6306802066448

Status : Answered

Chosen Option : 1

Q.19 QTRU is related to SVTW in a certain way based on the English alphabetical order. In the same way, TWUX is related to VYWZ. To which of the following is LOMP related, following the same logic?

- Ans ☒ 1. NQRO
☒ 2. NQOR
☒ 3. QNOR
☒ 4. QNRO

Question ID : 630680376719
Option 1 ID : 6306801467941
Option 2 ID : 6306801467942
Option 3 ID : 6306801467939
Option 4 ID : 6306801467940
Status : Answered
Chosen Option : 2

Q.20 MILK is related to OLPL in a certain way based on the English alphabetical order. In the same way, TILE is related to VLPF. To which of the following is STAR related, following the same logic?

- Ans ☒ 1. UWFS
☒ 2. VWES
☒ 3. UWES
☒ 4. VWFS

Question ID : 630680376879
Option 1 ID : 6306801468580
Option 2 ID : 6306801468582
Option 3 ID : 6306801468581
Option 4 ID : 6306801468579
Status : Answered
Chosen Option : 3

Q.21 Ajay starts from his home and drives 5 km towards the south. He then takes a left turn, drives 6 km, turns right, and drives 4 km. He then takes a left turn and drives 5 km and reached his office.
In which direction is the office with respect to his home?
(All turns are 90° turns only, unless specified.)

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

Question ID : 630680376872
Option 1 ID : 6306801468552
Option 2 ID : 6306801468553
Option 3 ID : 6306801468554
Option 4 ID : 6306801468551
Status : Answered
Chosen Option : 1

Q.22 'JK 2' is related to 'MN 12' in a certain way based on the English alphabetical and numerical order. In the same way, 'IJ 25' is related to 'LM 150'. To which of the following is 'RS 24' related following the same logic?

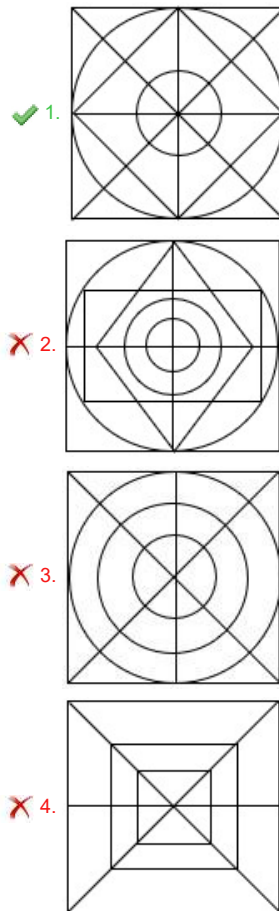
- Ans
- ☒ 1. TV 169
 - ☒ 2. UV 169
 - ☒ 3. TV 194
 - ☒ 4. UV 144

Question ID : 630680377767
 Option 1 ID : 6306801472130
 Option 2 ID : 6306801472128
 Option 3 ID : 6306801472127
 Option 4 ID : 6306801472129
 Status : Answered
 Chosen Option : 4

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



Ans



Question ID : 630680422227
 Option 1 ID : 6306801647344
 Option 2 ID : 6306801647345
 Option 3 ID : 6306801647346
 Option 4 ID : 6306801647347
 Status : Answered
 Chosen Option : 1

Q.24 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
WLI, BJJ, GHK, LFL, QDM, ?

- Ans ☒ 1. VBN
☐ 2. UCN
☐ 3. RBM
☐ 4. QBN

Question ID : 630680379364
Option 1 ID : 6306801478500
Option 2 ID : 6306801478501
Option 3 ID : 6306801478502
Option 4 ID : 6306801478499
Status : Answered
Chosen Option : 1

Q.25 इस प्रश्न में शब्दों का एक युग्म दिया गया है जो एक-दूसरे से एक निश्चित संबंध रखते हैं। समान संबंध रखने वाले शब्द-युग्म का चयन करें।

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

करुणा : सहानुभूति (Compassion : Sympathy)

- Ans ☐ 1. निर्बल : प्रबल (Feeble : Strong)
☐ 2. भव्य : नीरस (Gorgeous : Dull)
☒ 3. सुस्पष्ट : वाक्पटु (Lucid : Eloquent)
☐ 4. मजबूत बनाना : कमजोर करना (Consolidate : Weaken)

Question ID : 630680571434
Option 1 ID : 6306802234774
Option 2 ID : 6306802234775
Option 3 ID : 6306802234776
Option 4 ID : 6306802234773
Status : Answered
Chosen Option : 1

Q.26 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
HXX, GWL, FVM, EUN, ?

- Ans ☐ 1. ORP
☐ 2. FTO
☐ 3. DRO
☒ 4. DTO

Question ID : 630680378953
Option 1 ID : 6306801476862
Option 2 ID : 6306801476859
Option 3 ID : 6306801476861
Option 4 ID : 6306801476860
Status : Answered
Chosen Option : 4

Q.27 SX 27 is related to ZE 9 in a certain way. In the same way, KP 72 is related to RW 24. To which of the following is FK 3 related, following the same logic?

- Ans  1. NT 9
 2. NS 1
 3. MR 1
 4. MP 9





Question ID : 630680395313
Option 1 ID : 6306801541456
Option 2 ID : 6306801541457
Option 3 ID : 6306801541459
Option 4 ID : 6306801541458
Status : Answered
Chosen Option : 3

Q.28 In a certain code language, 'VALUES' is coded as '13579\$' and 'VALUED' is coded as '573#91'. What is the code for 'D' in the given code language?

- Ans  1. #
 2. 1
 3. 9
 4. \$

Question ID : 630680384344
Option 1 ID : 6306801498265
Option 2 ID : 6306801498263
Option 3 ID : 6306801498262
Option 4 ID : 6306801498264
Status : Answered
Chosen Option : 1

Q.29 In a certain code language, 'RICE' is coded as '5379' and 'COLD' is coded as '8432'. What is the code for 'C' in the given code language?

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

Question ID : 630680377190
Option 1 ID : 6306801469823
Option 2 ID : 6306801469825
Option 3 ID : 6306801469824
Option 4 ID : 6306801469826
Status : Answered
Chosen Option : 1

Q.30 Six babies Ria, Sia, Tia, Urja, Vani and Winnie are born one after the other but not necessarily in the same order. All of them were born in different cities. Only two babies were born before the one who was born in Raipur. Only one baby was born between Sia, who was born in Delhi and the baby born in Raipur. Tia was born before Urja and just after the baby born in Haridwar. Tia was not born in Raipur. Ria was born in Bhopal and just before Vani. Tia was born immediately before the baby born in Ballia. Winnie was not born in Pune.
Which baby was born in Raipur?

Ans  1. Urja

 2. Vani

 3. Tia

 4. Ria

Question ID : 630680521123

Option 1 ID : 6306802036920

Option 2 ID : 6306802036919

Option 3 ID : 6306802036918

Option 4 ID : 6306802036917

Status : Not Answered

Chosen Option : --

Q.31 What will come in place of the question mark (?) in the following equation if '+' and '-' are interchanged and 'x' and '÷' are interchanged?
 $33 \times 3 \div 2 + 10 - 5 = ?$

Ans  1. 14

 2. 17

 3. 15

 4. 16

Question ID : 630680377837

Option 1 ID : 6306801472407

Option 2 ID : 6306801472410

Option 3 ID : 6306801472408

Option 4 ID : 6306801472409

Status : Answered

Chosen Option : 2

Q.32 What will come in place of the question mark (?) in the following equation if '+' and '-' are interchanged and 'x' and '÷' are interchanged?
 $13 \div 2 - 15 + 120 \times 4 = ?$

Ans  1. 7

 2. 11

 3. 15

 4. 13

Question ID : 630680376799

Option 1 ID : 6306801468259

Option 2 ID : 6306801468260

Option 3 ID : 6306801468262

Option 4 ID : 6306801468261

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?

MQU, JRT, GSS, DTR, ?

Ans  **1. AUQ**

 **2. ATQ**

 **3. BUQ**

 **4. AUP**

Question ID : **630680387611**

Option 1 ID : **6306801511111**

Option 2 ID : **6306801511110**

Option 3 ID : **6306801511113**

Option 4 ID : **6306801511112**

Status : **Answered**

Chosen Option : **1**

Q.34 In a certain code language, 'PFE' is coded as '54' and 'NUJ' is coded as '36'. What is the code for 'AZL' in the given language?

Ans  **1. 51**

 **2. 53**

 **3. 42**

 **4. 47**

Question ID : **630680375914**

Option 1 ID : **6306801464729**

Option 2 ID : **6306801464730**

Option 3 ID : **6306801464727**

Option 4 ID : **6306801464728**

Status : **Not Answered**

Chosen Option : **--**


Q.35 What will come in place of the question mark (?) in the following equation if '÷' and 'x' are interchanged?

$$39 + 27 \div 108 \times 9 - 16 = ?$$

Ans  **1. 351**

 **2. 342**

 **3. 347**

 **4. 339**

Question ID : **630680376977**

Option 1 ID : **6306801468971**

Option 2 ID : **6306801468973**

Option 3 ID : **6306801468972**

Option 4 ID : **6306801468974**

Status : **Answered**

Chosen Option : **3**

Q.36 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 bikes are trucks. All trucks are planes.

Conclusion 1: Some bikes are planes.

Conclusion 2: No truck is a bike.

Ans ☒ 1. Only conclusion (1) follows

☒ 2. Both conclusion (1) and conclusion (2) follow

☒ 3. None of the conclusions follow

☒ 4. Only conclusion (2) follows

Question ID : 630680381548

Option 1 ID : 6306801487123

Option 2 ID : 6306801487125

Option 3 ID : 6306801487126

Option 4 ID : 6306801487124

Status : Answered

Chosen Option : 1

Q.37 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)
(5, 20)
(10, 90)

Ans ☒ 1. (9, 72)

☒ 2. (8, 40)

☒ 3. (7, 49)

☒ 4. (6, 24)

Question ID : 630680375855

Option 1 ID : 6306801464494

Option 2 ID : 6306801464493

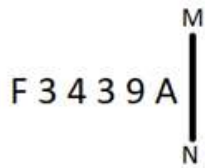
Option 3 ID : 6306801464492

Option 4 ID : 6306801464491

Status : Answered

Chosen Option : 1

Q.38 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



Ans

- ☒ 1. A 9 3 4 3 F
- ☒ 2. F 3 4 3 A 9
- ☒ 3. F 3 4 3 A 9
- ☒ 4. 9 A 3 4 3 F

Question ID : 630680524862

Option 1 ID : 6306802051550

Option 2 ID : 6306802051549

Option 3 ID : 6306802051548

Option 4 ID : 6306802051547

Status : Answered

Chosen Option : 3

Q.39 The position(s) of how many letters will remain unchanged if each of the letters in the word SHORTEN is arranged in the English alphabetical order?

Ans

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

Question ID : 630680396644

Option 1 ID : 6306801546668

Option 2 ID : 6306801546669

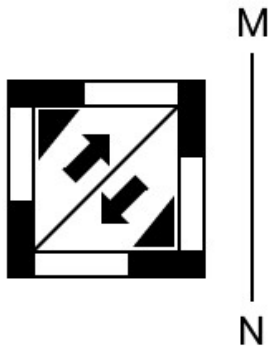
Option 3 ID : 6306801546670

Option 4 ID : 6306801546671

Status : Answered

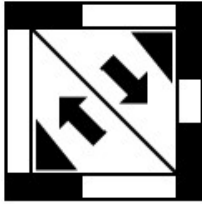
Chosen Option : 3

Q.40 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



Ans

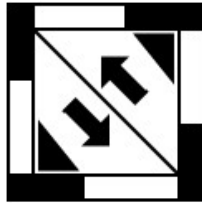
✗ 1.



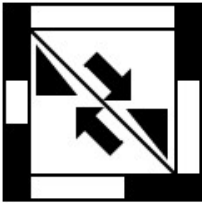
✗ 2.



✓ 3.



✗ 4.



Question ID : 630680456659

Option 1 ID : 6306801783599

Option 2 ID : 6306801783600

Option 3 ID : 6306801783601

Option 4 ID : 6306801783602

Status : Answered

Chosen Option : 3

Q.41 What should come in place of the question mark (?) in the given series?
16, 25, 34, 43, 52, ?

- Ans ☒ 1. 62
☒ 2. 69
☒ 3. 60
☒ 4. 61

Question ID : 630680377842
Option 1 ID : 6306801472430
Option 2 ID : 6306801472427
Option 3 ID : 6306801472428
Option 4 ID : 6306801472429
Status : Answered
Chosen Option : 4

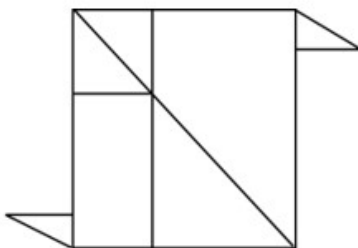
Q.42 उस विकल्प का चयन कीजिए जो निम्नलिखित शब्दों के सार्थक और तार्किक क्रम-विन्यास को दर्शाता है।

1. डॉक्टर
2. इलाज
3. दुर्घटना
4. चोट
5. दवा

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

Question ID : 630680404454
Option 1 ID : 6306801577316
Option 2 ID : 6306801577317
Option 3 ID : 6306801577318
Option 4 ID : 6306801577319
Status : Answered
Chosen Option : 3

Q.43 How many triangles are there in the given figure?



- Ans ☒ 1. 10
☒ 2. 8
☒ 3. 7
☒ 4. 9

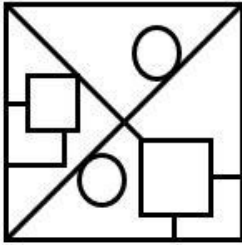
Question ID : 630680524414
Option 1 ID : 6306802049758
Option 2 ID : 6306802049756
Option 3 ID : 6306802049755
Option 4 ID : 6306802049757
Status : Answered
Chosen Option : 3

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

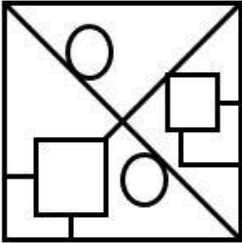


Ans

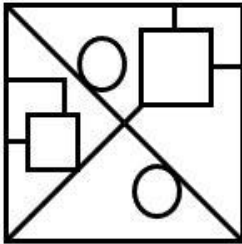
✗ 1.



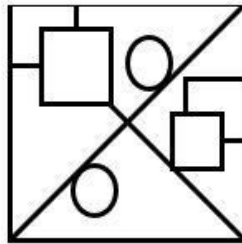
✗ 2.



✗ 3.



✓ 4.



Question ID : 630680524472

Option 1 ID : 6306802049989

Option 2 ID : 6306802049990

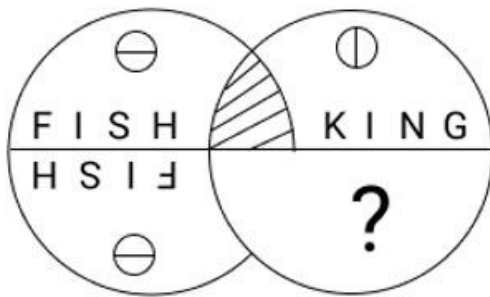
Option 3 ID : 6306802049987

Option 4 ID : 6306802049988

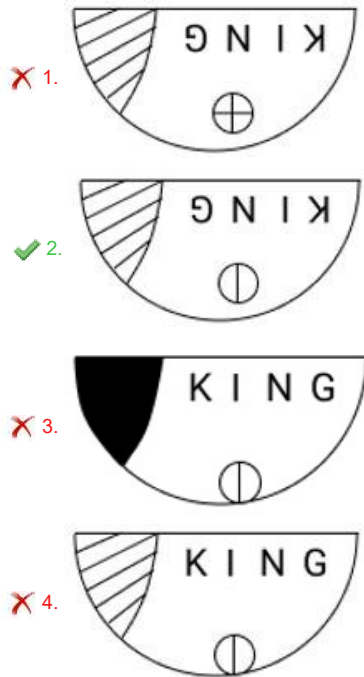
Status : Answered

Chosen Option : 4

Q.45 Select the figure from the options that can replace the question mark (?) and complete the given pattern.



Ans



Question ID : 630680524807
 Option 1 ID : 6306802051330
 Option 2 ID : 6306802051327
 Option 3 ID : 6306802051329
 Option 4 ID : 6306802051328
 Status : Answered
 Chosen Option : 2

Q.46 126 is related to 135 following a certain logic. Following the same logic, 214 is related to 223. To which of the following is 425 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. 424
 - ✓ 2. 434
 - ✗ 3. 444
 - ✗ 4. 454

Question ID : 630680396929
 Option 1 ID : 6306801547780
 Option 2 ID : 6306801547781
 Option 3 ID : 6306801547782
 Option 4 ID : 6306801547783
 Status : Answered
 Chosen Option : 2

Q.47 In a certain code language,
'A + B' means 'A is the mother of B',
'A - B' means 'A is the brother of B',
'A × B' means 'A is the sister of B', and
'A ÷ B' means 'A is the husband of B'.
How is K related to L if 'L + A - B ÷ K × G + F'?

Ans ☒ 1. Son's wife

☐ 2. Daughter's daughter

☐ 3. Daughter

☐ 4. Son's daughter

Question ID : 630680378718

Option 1 ID : 6306801475922

Option 2 ID : 6306801475921

Option 3 ID : 6306801475920

Option 4 ID : 6306801475919

Status : Answered

Chosen Option : 1

Q.48 If 'A' stands for '+', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '-', what will come in place of the question mark '?' in the following equation?

24 B 12 D 39 A 13 C 15 = ?

Ans ☐ 1. 310

☒ 2. 300

☐ 3. 299

☐ 4. 295

Question ID : 630680502798

Option 1 ID : 6306801964773

Option 2 ID : 6306801964774

Option 3 ID : 6306801964775

Option 4 ID : 6306801964776

Status : Answered

Chosen Option : 2

Q.49 ZX 9 is related to ML 3 in a certain way. In the same way, VT 12 is related to KJ 4. To which of the following is RP 15 related, following the same logic?

Ans ☐ 1. HE 7

☐ 2. HR 8

☐ 3. JH 6

☒ 4. IH 5

Question ID : 630680387607

Option 1 ID : 6306801511094

Option 2 ID : 6306801511095

Option 3 ID : 6306801511096

Option 4 ID : 6306801511097

Status : Answered

Chosen Option : 4

Q.50 OTNQ is related to SXRU in a certain way based on the English alphabetical order. In the same way, JOIL is related to NSMP. To which of the following is MRLO related, following the same logic?

- Ans ☒ 1. VQSP
☒ 2. VQPS
☒ 3. QVPS
☒ 4. QVSP

Question ID : 630680379502
Option 1 ID : 6306801479051
Option 2 ID : 6306801479052
Option 3 ID : 6306801479054
Option 4 ID : 6306801479053
Status : Answered
Chosen Option : 3

Section : General Awareness

Q.1 In which of the following forms of government does the executive enjoy the right to dissolve the Legislature?

- Ans ☒ 1. Presidential form of government
☒ 2. Totalitarian government
☒ 3. Parliamentary form of government
☒ 4. Oligarchy

Question ID : 630680409036
Option 1 ID : 6306801595069
Option 2 ID : 6306801595070
Option 3 ID : 6306801595071
Option 4 ID : 6306801595072
Status : Answered
Chosen Option : 3

Q.2 Most seawater has about how much salt in every 1,000 g (about a litre) of water?

- Ans ☒ 1. 100 g
☒ 2. 200 g
☒ 3. 15 g
☒ 4. 35 g

Question ID : 630680615269
Option 1 ID : 6306802407750
Option 2 ID : 6306802407751
Option 3 ID : 6306802407752
Option 4 ID : 6306802407753
Status : Not Answered
Chosen Option : --

Q.3 What does the term 'e-commerce' refer to?

- Ans**
- ☒ 1. Trading of commodities
 - ☐ 2. Buying and selling of goods and services over the internet
 - ☐ 3. Exchange of goods for services
 - ☐ 4. Government-regulated commerce

Question ID : **630680460237**
Option 1 ID : **6306801797394**
Option 2 ID : **6306801797395**
Option 3 ID : **6306801797396**
Option 4 ID : **6306801797397**
Status : **Answered**
Chosen Option : 2

Q.4 Which of the following dimensions of liberty is NOT mentioned in the Preamble of the Constitution of India?

- Ans**
- ☐ 1. Belief
 - ☒ 2. Opportunity
 - ☐ 3. Thought
 - ☐ 4. Expression

Question ID : **630680411415**
Option 1 ID : **6306801604499**
Option 2 ID : **6306801604498**
Option 3 ID : **6306801604496**
Option 4 ID : **6306801604497**
Status : **Answered**
Chosen Option : 2

Q.5 Since the attraction between molecules of gas is very low, what benefit do we get from this property of gas?

- Ans**
- ☒ 1. Compressed and stored in smaller cylinders
 - ☐ 2. Burns easily
 - ☐ 3. Does not move from one place to another
 - ☐ 4. Does not change their shape easily

Question ID : **630680402649**
Option 1 ID : **6306801570195**
Option 2 ID : **6306801570196**
Option 3 ID : **6306801570197**
Option 4 ID : **6306801570198**
Status : **Answered**
Chosen Option : 1

Q.6 Which phylum of the animal kingdom is made up of segmented insects like earthworms?

Ans ☒ 1. Annelida

☐ 2. Porifera

☐ 3. Nematoda

☐ 4. Platyhelminthes

Question ID : 630680404147

Option 1 ID : 6306801576077

Option 2 ID : 6306801576076

Option 3 ID : 6306801576074

Option 4 ID : 6306801576075

Status : **Not Attempted and
Marked For Review**

Chosen Option : --

Q.7 Who among the following was an Anglo-Indian teacher of the Hindu college of Calcutta to initiate the Young Bengal Movement?

Ans ☐ 1. Charles wilkins

☐ 2. David Hare

☒ 3. Henry Vivian Derozio

☐ 4. Henry Colbert

Question ID : 630680511587

Option 1 ID : 6306801999471

Option 2 ID : 6306801999472

Option 3 ID : 6306801999473

Option 4 ID : 6306801999470

Status : **Not Answered**

Chosen Option : --

Q.8 Olefiant gas belongs to which of the following functional groups?

Ans ☐ 1. Ketone

☐ 2. Halo alkane

☒ 3. Alkenes

☐ 4. Alkynes

Question ID : 630680403007

Option 1 ID : 6306801571601

Option 2 ID : 6306801571599

Option 3 ID : 6306801571600

Option 4 ID : 6306801571602

Status : **Not Answered**

Chosen Option : --

Q.9 What is the name of the scheme under which the Government of India has planned to provide skill training for 2 crore women as announced in August 2023?

- Ans ☒ 1. Ladli Beti
☒ 2. Sudarshna Scheme
☒ 3. Lakhpati Didi
☒ 4. Meri Behan

Question ID : 630680453652
Option 1 ID : 6306801771612
Option 2 ID : 6306801771613
Option 3 ID : 6306801771614
Option 4 ID : 6306801771615
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.10 Which of the following statements is/are correct?

- I.M0 is called broad money
II.M1 is called narrow money
III.M0 = Currency in Circulation + Bankers' Deposits with RBI + 'Other' Deposits with RBI

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

Question ID : 630680512401
Option 1 ID : 6306802002574
Option 2 ID : 6306802002576
Option 3 ID : 6306802002577
Option 4 ID : 6306802002575
Status : Not Answered
Chosen Option : --

Q.11 Who was appointed as the first woman Chair person of the Railway Board by the Government of India on 31 August 2023?

- Ans ☒ 1. Kanchan Chaudhary
☒ 2. Smriti Zubin Irani
☒ 3. Jaya Verma Sinha
☒ 4. Pooja Gupta

Question ID : 630680804276
Option 1 ID : 6306803150838
Option 2 ID : 6306803150835
Option 3 ID : 6306803150836
Option 4 ID : 6306803150837
Status : Answered
Chosen Option : 3

Q.12 Which chemical reaction occurs when you mix vinegar (acetic acid) and baking soda (sodium bicarbonate)?

- Ans
- ☐ 1. Oxidation
 - ☐ 2. Precipitation
 - ☒ 3. Neutralisation
 - ☐ 4. Combustion

Question ID : 630680412111
Option 1 ID : 6306801607267
Option 2 ID : 6306801607268
Option 3 ID : 6306801607269
Option 4 ID : 6306801607270
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.13 Why cannot we write the chemical formula of a compound formed by chlorine and sodium as ClNa instead of NaCl?

- Ans
- ☒ 1. The rule is to write the name of the metal first.
 - ☐ 2. Both the formulas are correct.
 - ☐ 3. Chlorine is lighter, hence is written at the end.
 - ☐ 4. Chlorine is yellow in colour.

Question ID : 630680401855
Option 1 ID : 6306801567190
Option 2 ID : 6306801567191
Option 3 ID : 6306801567192
Option 4 ID : 6306801567193
Status : Answered
Chosen Option : 1

Q.14 On 1st September 2023, who was appointed as Chairman and CEO of Railway Board?

- Ans
- ☐ 1. Naresh Lalwani
 - ☐ 2. Amar Dwivedi
 - ☐ 3. Manoj Sharma
 - ☒ 4. Jaya Verma Sinha

Question ID : 630680493796
Option 1 ID : 6306801928913
Option 2 ID : 6306801928914
Option 3 ID : 6306801928915
Option 4 ID : 6306801928916
Status : Answered
Chosen Option : 4

Q.15 According to the Preamble, what does the promotion of fraternity assure?

- Ans
- ☒ 1. Unity and integrity of the nation
 - ☐ 2. Economic opportunities
 - ☐ 3. Thought, expression, belief, faith and worship
 - ☐ 4. Allows all to profess, preach and practice any religion

Question ID : 630680804338
Option 1 ID : 6306803151084
Option 2 ID : 6306803151085
Option 3 ID : 6306803151083
Option 4 ID : 6306803151086
Status : Answered
Chosen Option : 1

Q.16 The Assam Darrang and Lakhimpur Districts (Assimilation of Laws on State Subjects) (Repealing) Act, 2022, received the Governor's assent in ____.

- Ans ☒ 1. April 2023
☒ 2. March 2023
☒ 3. February 2023
☒ 4. January 2023

Question ID : 630680513774
Option 1 ID : 6306802007721
Option 2 ID : 6306802007722
Option 3 ID : 6306802007724
Option 4 ID : 6306802007723
Status : Not Answered
Chosen Option : --

Q.17 Hemant Chauhan, who received the Padma Shri in 2023, is associated with:

- Ans ☒ 1. Kannada music
☒ 2. Telugu music
☒ 3. Gujarati music
☒ 4. Bengali music

Question ID : 630680454080
Option 1 ID : 6306801773258
Option 2 ID : 6306801773257
Option 3 ID : 6306801773255
Option 4 ID : 6306801773256
Status : Not Answered
Chosen Option : --

Q.18 Which of the following locations is known for lignite coal production?

- Ans ☒ 1. Neyveli
☒ 2. Korba
☒ 3. Talcher
☒ 4. Bokaro

Question ID : 630680510932
Option 1 ID : 6306801996861
Option 2 ID : 6306801996858
Option 3 ID : 6306801996860
Option 4 ID : 6306801996859
Status : Not Answered
Chosen Option : --

Q.19 Which of the following animals are endemic to Australia?

- Ans ☒ 1. Dog
☒ 2. Elephant
☒ 3. Kangaroo
☒ 4. Giant Panda

Question ID : 630680539379
Option 1 ID : 6306802108646
Option 2 ID : 6306802108645
Option 3 ID : 6306802108647
Option 4 ID : 6306802108644
Status : Answered
Chosen Option : 3

Q.20 In which of the following cities of India was the 1st Mayor's Trophy International Grandmaster Chess Tournament - 2023 organised?

- Ans
- ☒ 1. Panaji
 - ☒ 2. Patna
 - ☒ 3. Indore
 - ☒ 4. Chennai

Question ID : 630680460163
Option 1 ID : 6306801797098
Option 2 ID : 6306801797099
Option 3 ID : 6306801797100
Option 4 ID : 6306801797101
Status : Not Answered
Chosen Option : --

Q.21 What is the term for the process of water loss from plant leaves through tiny openings called stomata?

- Ans
- ☒ 1. Photosynthesis
 - ☒ 2. Transpiration
 - ☒ 3. Respiration
 - ☒ 4. Germination

Question ID : 630680701427
Option 1 ID : 6306802747645
Option 2 ID : 6306802747646
Option 3 ID : 6306802747647
Option 4 ID : 6306802747648
Status : Answered
Chosen Option : 2

Q.22 Which of the following organisms belong to the Phylum Protozoa?

- Ans
- ☒ 1. Amoeba, Paramecium, Taenia
 - ☒ 2. Euglena, Paramecium, Jelly fish
 - ☒ 3. Amoeba, Paramecium, Plasmodium
 - ☒ 4. Amoeba, Paramecium, Jelly fish

Question ID : 630680542131
Option 1 ID : 6306802119468
Option 2 ID : 6306802119467
Option 3 ID : 6306802119466
Option 4 ID : 6306802119465
Status : Answered
Chosen Option : 3

Q.23 In 2001, Eric A Cornell along with which two scientists received the Nobel Prize in Physics for achieving 'Bose-Einstein Condensation'?

- Ans
- ☒ 1. Wolfgang Ketterle and Carl E Wieman
 - ☒ 2. William Crookes and Gemma Stephenson
 - ☒ 3. Sergei Winogradsky and Ariele Warshel
 - ☒ 4. Frank Wilczek and Harold Urey

Question ID : 630680403646
Option 1 ID : 6306801574074
Option 2 ID : 6306801574075
Option 3 ID : 6306801574077
Option 4 ID : 6306801574076
Status : Not Answered
Chosen Option : --

Q.24 Sahil Sarabhai is standing in the middle. On one side, his wife Monisha is pulling him with a force of 100 N eastward, whereas his mother, Maya is pulling him with a force of 150 N westward. What will be the net force on Sahil and towards whom will he move in the end if at all?

- Ans**
- ☐ 1. 50N, Monisha
 - ☐ 2. 250N, will not move
 - ☒ 3. 50N, Maya
 - ☐ 4. -50N, Maya

Question ID : **630680401759**
Option 1 ID : **6306801566802**
Option 2 ID : **6306801566803**
Option 3 ID : **6306801566804**
Option 4 ID : **6306801566805**
Status : **Not Answered**
Chosen Option : --

Q.25 According to Census of India 1901, what was the total population of India?

- Ans**
- ☒ 1. 238.40 million
 - ☐ 2. 360.23 million
 - ☐ 3. 620.12 million
 - ☐ 4. 845.80 million

Question ID : **630680477337**
Option 1 ID : **6306801864505**
Option 2 ID : **6306801864506**
Option 3 ID : **6306801864507**
Option 4 ID : **6306801864508**
Status : **Answered**
Chosen Option : 4

Q.26 Swaran Singh Committee was established by the government under which Prime Minister in 1976 to make recommendations regarding fundamental duties?

- Ans**
- ☐ 1. Morarji Desai
 - ☒ 2. Indira Gandhi
 - ☐ 3. Jayaprakash Narayan
 - ☐ 4. Chaudhary Charan Singh

Question ID : **630680493475**
Option 1 ID : **6306801927639**
Option 2 ID : **6306801927640**
Option 3 ID : **6306801927641**
Option 4 ID : **6306801927642**
Status : **Not Answered**
Chosen Option : --

Q.27 The _____ is famous for 'Karewa' formations.

- Ans
- ☒ 1. Coromandel Coast
 - ☒ 2. Thar Desert
 - ☒ 3. Kashmir Himalayas
 - ☒ 4. Rann of Kutch

Question ID : 630680511007
Option 1 ID : 6306801997159
Option 2 ID : 6306801997158
Option 3 ID : 6306801997161
Option 4 ID : 6306801997160
Status : Not Answered
Chosen Option : --

Q.28 What percentage of women were nominated to the panel of Vice-Chairpersons in the Upper House on 20 July 2023?

- Ans
- ☒ 1. 15%
 - ☒ 2. 25%
 - ☒ 3. 50%
 - ☒ 4. 75%

Question ID : 630680411232
Option 1 ID : 6306801603680
Option 2 ID : 6306801603681
Option 3 ID : 6306801603682
Option 4 ID : 6306801603683
Status : Answered
Chosen Option : 1

Q.29 Manish Desai was in the news for taking charge of which post in the Press Information Bureau in September 2023?

- Ans
- ☒ 1. Principal Director General
 - ☒ 2. Deputy Director
 - ☒ 3. Additional Director General
 - ☒ 4. Joint Director

Question ID : 630680412692
Option 1 ID : 6306801609591
Option 2 ID : 6306801609592
Option 3 ID : 6306801609593
Option 4 ID : 6306801609594
Status : Answered
Chosen Option : 3

Q.30 What is the chemical formula for ammonia?

- Ans
- ☒ 1. H₂O
 - ☒ 2. CO₂
 - ☒ 3. NaCl
 - ☒ 4. NH₃

Question ID : 630680407991
Option 1 ID : 6306801590882
Option 2 ID : 6306801590883
Option 3 ID : 6306801590885
Option 4 ID : 6306801590884
Status : Answered
Chosen Option : 4

Q.31 Which keyboard shortcut can be used to Print the Microsoft Word document?

Ans ☒ 1. Ctrl + P

☒ 2. Ctrl + S

☒ 3. Ctrl + V

☒ 4. Ctrl + Z

Question ID : 630680571787

Option 1 ID : 6306802236046

Option 2 ID : 6306802236047

Option 3 ID : 6306802236048

Option 4 ID : 6306802236049

Status : Answered

Chosen Option : 1

Q.32 When did the new judicial system of setting up two courts (Criminal and civil) in each district start?

Ans ☒ 1. 1772 C.E.

☒ 2. 1756 C.E.

☒ 3. 1773 C.E.

☒ 4. 1774 C.E.

Question ID : 630680511549

Option 1 ID : 6306801999319

Option 2 ID : 6306801999318

Option 3 ID : 6306801999320

Option 4 ID : 6306801999321

Status : Not Answered

Chosen Option : --

Q.33 Who among the following was forced to leave his ancestral throne due to the invasion of the Uzbeks?

Ans ☒ 1. Shershah Suri

☒ 2. Daulat Khan Lodi

☒ 3. Babur

☒ 4. Genghis Khan

Question ID : 630680511626

Option 1 ID : 6306801999629

Option 2 ID : 6306801999627

Option 3 ID : 6306801999628

Option 4 ID : 6306801999626

Status : Not Answered

Chosen Option : --

Q.34 One characteristic of viruses is that they do not show any signs of life unless they enter a living host and start multiplying using the host's cell. What is the main reason behind this?

- Ans ☒ 1. They camouflage themselves as non-living to find a host.
- ☒ 2. They lack cell membrane and other organelles.
- ☒ 3. They lack DNA.
- ☒ 4. They need heat of the hosts body to multiply.

Question ID : 630680403322

Option 1 ID : 6306801572797

Option 2 ID : 6306801572798

Option 3 ID : 6306801572799

Option 4 ID : 6306801572800

Status : Answered

Chosen Option : 1

Q.35 Which of the following organisations was founded by Jyotiba Phule to propagate caste equality?

- Ans ☒ 1. Satyashodhak Samaj
- ☒ 2. Prarthana Samaj
- ☒ 3. Vedanta Samaj
- ☒ 4. Brahmo Samaj

Question ID : 630680572362

Option 1 ID : 6306802238288

Option 2 ID : 6306802238289

Option 3 ID : 6306802238290

Option 4 ID : 6306802238291

Status : Not Answered

Chosen Option : --

Q.36 Which of the following is used to remove formatting from a selected paragraph in many word processing programs?

- Ans ☒ 1. Clear Formatting
- ☒ 2. Delete Paragraph
- ☒ 3. Format Painter
- ☒ 4. Remove Paragraph

Question ID : 630680571771

Option 1 ID : 6306802235984

Option 2 ID : 6306802235985

Option 3 ID : 6306802235986

Option 4 ID : 6306802235987

Status : Not Answered

Chosen Option : --

Q.37 Which ministry launched the KCC Ghar Ghar Abhiyaan in September 2023?

- Ans ☒ 1. Ministry of Agriculture and Farmers Welfare
☐ 2. Ministry of Education
☐ 3. Ministry of Women and Child Development
☐ 4. Ministry of Housing and Urban Affairs

Question ID : 630680411157
Option 1 ID : 6306801603384
Option 2 ID : 6306801603385
Option 3 ID : 6306801603386
Option 4 ID : 6306801603387
Status : Answered
Chosen Option : 4

Q.38 _____ assumed the charge as Registrar General & Census Commissioner of India with effect from November 1, 2022.

- Ans ☐ 1. Amit Shah
☒ 2. Mritunjay Kumar Narayan
☐ 3. Dr. C Chandramouli
☐ 4. Piyush Goyal

Question ID : 630680477193
Option 1 ID : 6306801863941
Option 2 ID : 6306801863942
Option 3 ID : 6306801863943
Option 4 ID : 6306801863944
Status : Not Answered
Chosen Option : --

Q.39 Which of the following is a green alga found in vast masses of a variety of marine and fresh waters?

- Ans ☐ 1. Porphyra
☐ 2. Gelidium
☐ 3. Sargassum
☒ 4. Cladophora

Question ID : 630680404151
Option 1 ID : 6306801576090
Option 2 ID : 6306801576091
Option 3 ID : 6306801576092
Option 4 ID : 6306801576093
Status : Not Answered
Chosen Option : --

Q.40 Which of the following money supply measures is commonly known as the aggregate monetary resources?

- Ans ☐ 1. M4
☒ 2. M3
☐ 3. M2
☐ 4. M1

Question ID : 630680701674
Option 1 ID : 6306802748644
Option 2 ID : 6306802748643
Option 3 ID : 6306802748642
Option 4 ID : 6306802748641
Status : Not Answered
Chosen Option : --

Q.41 Which of the following is the most common nutritional cause of anaemia?

- Ans
- ☐ 1. Selenium deficiency
 - ☐ 2. Calcium deficiency
 - ☐ 3. Magnesium deficiency
 - ☒ 4. Iron deficiency

Question ID : 630680404153
Option 1 ID : 6306801576101
Option 2 ID : 6306801576099
Option 3 ID : 6306801576100
Option 4 ID : 6306801576098
Status : Answered
Chosen Option : 4

Q.42 Who was the music director of the film Bees Saal Baad, which was released in 1962?

- Ans
- ☐ 1. Bimal Roy
 - ☐ 2. Shyamal Mitra
 - ☐ 3. V Balsara
 - ☒ 4. Hemant Kumar

Question ID : 630680701405
Option 1 ID : 6306802747560
Option 2 ID : 6306802747559
Option 3 ID : 6306802747557
Option 4 ID : 6306802747558
Status : Not Answered
Chosen Option : --

Q.43 What is the reason behind the Indian peninsular region not showing drastic change during winters and having a moderate temperature?

- Ans
- ☐ 1. moderating Influence of dense human population
 - ☐ 2. moderating Influence of heavy monsoon
 - ☒ 3. moderating Influence of the sea
 - ☐ 4. moderating Influence of plateaus

Question ID : 630680565173
Option 1 ID : 6306802209667
Option 2 ID : 6306802209668
Option 3 ID : 6306802209665
Option 4 ID : 6306802209666
Status : Answered
Chosen Option : 3

Q.44 Which of the following statements is correct?

- Ans
- ☒ 1. A neutron has no electrical charge.
 - ☐ 2. The central part of an atom contains only protons.
 - ☐ 3. The central part of an atom contains only neutrons.
 - ☐ 4. The central part of an atom contains only electrons.

Question ID : 630680588559
Option 1 ID : 6306802302711
Option 2 ID : 6306802302712
Option 3 ID : 6306802302713
Option 4 ID : 6306802302714
Status : Answered
Chosen Option : 1

Q.45 According to Census of India 2011, which state recorded the second lowest literacy rate in India?

- Ans ☒ 1. Assam
☒ 2. Arunachal Pradesh
☒ 3. Manipur
☒ 4. Tripura

Question ID : 630680477343
Option 1 ID : 6306801864529
Option 2 ID : 6306801864530
Option 3 ID : 6306801864531
Option 4 ID : 6306801864532
Status : Not Answered
Chosen Option : --

Q.46 Which juice is released in our gall bladder that facilitates the digestion of fats?

- Ans ☒ 1. Saliva
☒ 2. Acetic Acid
☒ 3. Bile
☒ 4. Mucous

Question ID : 630680539634
Option 1 ID : 6306802109661
Option 2 ID : 6306802109662
Option 3 ID : 6306802109663
Option 4 ID : 6306802109664
Status : Answered
Chosen Option : 3

Q.47 Which of the following is the third largest ocean in the world and is present on the southern side of Asia?

- Ans ☒ 1. Indian Ocean
☒ 2. Pacific Ocean
☒ 3. Bay of Bengal
☒ 4. Southern Ocean

Question ID : 630680546844
Option 1 ID : 6306802137946
Option 2 ID : 6306802137943
Option 3 ID : 6306802137945
Option 4 ID : 6306802137944
Status : Answered
Chosen Option : 1

Q.48 Which constitutional authority is appointed by the President of India under Article 76 of the Indian Constitution?

- Ans ☒ 1. Chief Election Commissioner
☒ 2. Attorney General of India
☒ 3. Comptroller & Auditor General of India
☒ 4. Chief Justice of India

Question ID : 630680493644
Option 1 ID : 6306801928304
Option 2 ID : 6306801928305
Option 3 ID : 6306801928306
Option 4 ID : 6306801928307
Status : Answered
Chosen Option : 2

Q.49 In which state is the 'Barauni' coal based power station located?

- Ans ☒ 1. Goa
☒ 2. Assam
☒ 3. Bihar
☒ 4. Meghalaya

Question ID : 630680510982
Option 1 ID : 6306801997061
Option 2 ID : 6306801997060
Option 3 ID : 6306801997058
Option 4 ID : 6306801997059
Status : Not Answered
Chosen Option : --

Q.50 Which of the following pairs is correctly matched?

- Ans ☒ 1. Football – 13 players in a team
☒ 2. Cricket – 11 players in a team
☒ 3. Kabaddi – 9 players in a team
☒ 4. Hockey – 10 players in a team

Question ID : 630680510858
Option 1 ID : 6306801996565
Option 2 ID : 6306801996562
Option 3 ID : 6306801996564
Option 4 ID : 6306801996563
Status : Answered
Chosen Option : 2

Section : General Engineering Civil and Structural

Q.1 The value of nominal shear stress for beam of varying depth is given by _____.

Ans

☒ 1. $\frac{V_u \mp \frac{d}{M_u} \tan \beta}{b}$

☒ 2. $\frac{V_u \mp \frac{d}{M_u} \tan \beta}{bd}$

☒ 3. $\frac{V_u \mp \frac{M_u}{d} \tan \beta}{bd}$

☒ 4. $\frac{V_u \mp \frac{M_u}{d} \tan \beta}{b}$

Question ID : 630680509671

Option 1 ID : 6306801991892

Option 2 ID : 6306801991891

Option 3 ID : 6306801991889

Option 4 ID : 6306801991890

Status : Answered

Chosen Option : 3

Q.2 Which of the following signs does NOT fall into the category of regulatory signs?

- i. No Parking Signs
- ii. Speed Limit Signs
- iii. Stop Sign
- iv. Slippery Road
- v. Parking Sign

Ans

☒ 1. Both iv and v

☒ 2. Both ii and iii

☒ 3. Only i, iv and v

☒ 4. Both i and v

Question ID : 630680509079

Option 1 ID : 6306801989613

Option 2 ID : 6306801989614

Option 3 ID : 6306801989612

Option 4 ID : 6306801989611

Status : Answered

Chosen Option : 4

Q.3 Surrounding atmospheric pressure is taken as datum to find _____

Ans

☒ 1. Null pressure

☒ 2. absolute pressure

☒ 3. vacuum pressure

☒ 4. gauge pressure

Question ID : 630680506943

Option 1 ID : 6306801981277

Option 2 ID : 6306801981280

Option 3 ID : 6306801981278

Option 4 ID : 6306801981279

Status : Answered

Chosen Option : 4

Q.4 If a unit rotation is to be caused at end 'A' as shown in the figure, the far end being hinged support, a moment of _____ has to be applied at A, where, 'EI' is the flexural rigidity of beam. Take length of beam AB as 5 m.



- Ans
- ☒ 1. 0.3 EI
 - ☒ 2. 0.4 EI
 - ☒ 3. 0.6 EI
 - ☒ 4. 0.9 EI

Question ID : 630680405556

Option 1 ID : 6306801581407

Option 2 ID : 6306801581406

Option 3 ID : 6306801581408

Option 4 ID : 6306801581409

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.5 The coefficient of permeability has the same unit as that of _____ .

- Ans
- ☒ 1. force
 - ☒ 2. acceleration
 - ☒ 3. hydraulic gradient
 - ☒ 4. velocity

Question ID : 630680181877

Option 1 ID : 630680704742

Option 2 ID : 630680704743

Option 3 ID : 630680704745

Option 4 ID : 630680704744

Status : Answered

Chosen Option : 4

Q.6 If water is flowing through a pipe of diameter 8 cm under 40 N/cm² of pressure and with 3 m/s of mean velocity, what will be the kinetic head?
(Acceleration due to gravity is 10 m/s².)

- Ans
- ☒ 1. 0.45 m
 - ☒ 2. 0.25 m
 - ☒ 3. 0.53 m
 - ☒ 4. 0.18 m

Question ID : 630680506946

Option 1 ID : 6306801981290

Option 2 ID : 6306801981291

Option 3 ID : 6306801981289

Option 4 ID : 6306801981292

Status : Answered

Chosen Option : 1

Q.7 In the case design of an axially loaded short RCC column, the meaning of axial loading refers to:

- Ans
- ☐ 1. non-uniform tensile strain distribution across the cross section
 - ☐ 2. uniform tensile strain distribution across the cross section
 - ☒ 3. uniform compressive strain distribution across the cross section
 - ☐ 4. non-uniform compressive strain distribution across the cross section

Question ID : 630680509670

Option 1 ID : 6306801991888

Option 2 ID : 6306801991886

Option 3 ID : 6306801991885

Option 4 ID : 6306801991887

Status : Answered

Chosen Option : 3

Q.8 If the load on an RCC lintel due to the wall above it is in the form of a triangular portion, then the angle subtended by a triangle at either end of the lintel shall be:

- Ans
- ☐ 1. 40 degrees each
 - ☐ 2. 50 degrees each
 - ☐ 3. 30 degrees each
 - ☒ 4. 60 degrees each

Question ID : 630680509658

Option 1 ID : 6306801991838

Option 2 ID : 6306801991839

Option 3 ID : 6306801991837

Option 4 ID : 6306801991840

Status : Not Answered

Chosen Option : --

Q.9 For a very deep footing in loose sand, the type of soil failure will be:

- Ans
- ☐ 1. general shear failure
 - ☐ 2. cracking shear failure
 - ☐ 3. local shear failure
 - ☒ 4. punching shear failure

Question ID : 630680504556

Option 1 ID : 6306801971785

Option 2 ID : 6306801971788

Option 3 ID : 6306801971786

Option 4 ID : 6306801971787

Status : Answered

Chosen Option : 4

Q.10 What is the use of an electrostatic precipitator?

- Ans
- ☐ 1. Vehicular pollutant control
 - ☐ 2. Gaseous pollutant control
 - ☒ 3. Particulate pollutant control
 - ☐ 4. Domestic pollutant control

Question ID : 630680509512

Option 1 ID : 6306801991319

Option 2 ID : 6306801991318

Option 3 ID : 6306801991317

Option 4 ID : 6306801991320

Status : Answered

Chosen Option : 3

Q.11 Which of the following tools is used to check the difference in cross levels or the superelevation in a highway?

- Ans ☒ 1. Canne-a-boule
☒ 2. Cant board
☒ 3. Cant bar
☒ 4. Cow bar

Question ID : 630680191631

Option 1 ID : 630680743148

Option 2 ID : 630680743145

Option 3 ID : 630680743146

Option 4 ID : 630680743147

Status : Answered

Chosen Option : 2

Q.12 In which of the processes of manufacturing of cement is the limestone brought from the quarries first crushed into smaller fragments?

- Ans ☒ 1. Wet process
☒ 2. Grinding process
☒ 3. Moist process
☒ 4. Dry process

Question ID : 630680509687

Option 1 ID : 6306801991953

Option 2 ID : 6306801991956

Option 3 ID : 6306801991955

Option 4 ID : 6306801991954

Status : Answered

Chosen Option : 4

Q.13 Which of the following is the effect of lumps present in cement?

- Ans ☒ 1. Enhanced durability of concrete
☒ 2. Decreased setting time of cement
☒ 3. Flash set of concrete
☒ 4. Decreased strength in concrete

Question ID : 630680357629

Option 1 ID : 6306801392508

Option 2 ID : 6306801392505

Option 3 ID : 6306801392506

Option 4 ID : 6306801392507

Status : Marked For Review

Chosen Option : 4

Q.14 Which of the following consistency limit of soil is indicated by rolling the soil into a thread of 3 mm, and it begins to crumble.

- Ans ☒ 1. Casagrande's limit
☒ 2. Shrinkage limit
☒ 3. Plastic limit
☒ 4. Liquid limit

Question ID : 630680504527

Option 1 ID : 6306801971672

Option 2 ID : 6306801971671

Option 3 ID : 6306801971670

Option 4 ID : 6306801971669

Status : Answered

Chosen Option : 2

Q.15 Select the option that is appropriate regarding the following two statements labelled Assertion and Reason.

Assertion: A channel should be designed for a velocity that will neither deposit the sediment nor scour the bed and banks. This velocity is known as non-scouring and non-silting velocity.

Reason: If the velocity of flow is too low, the sediment held in suspension will settle down; whereas, if the velocity is too high, the water will scour the bed and sides of the canal.

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 true and Reason is the correct explanation of Assertion.

☒ 4. Both Assertion and Reason are false.

Question ID : 630680504322

Option 1 ID : 6306801970851

Option 2 ID : 6306801970850

Option 3 ID : 6306801970849

Option 4 ID : 6306801970852

Status : Answered

Chosen Option : 3

Q.16 Which of the following is an efficient method of levelling that should be adopted to measure the elevation of two points when the distance between them is NOT within the visible range of the level?

Ans ☒ 1. Differential levelling

☒ 2. Block levelling

☒ 3. Profile levelling

☒ 4. Reciprocal levelling

Question ID : 630680506228

Option 1 ID : 6306801978429

Option 2 ID : 6306801978432

Option 3 ID : 6306801978431

Option 4 ID : 6306801978430

Status : Answered

Chosen Option : 1

Q.17 A high steep camber is NOT desirable to:

Ans ☒ 1. prevent entry of water into bituminous pavement layers

☒ 2. prevent the entry of surface water into subgrade soil

☒ 3. transverse tilt and skid of vehicle

☒ 4. remove rain water from pavement surface

Question ID : 630680509453

Option 1 ID : 6306801991084

Option 2 ID : 6306801991081

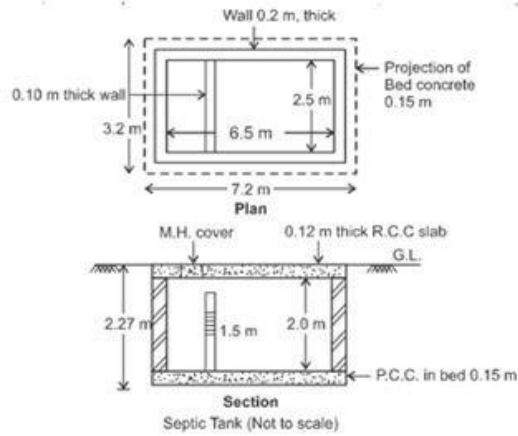
Option 3 ID : 6306801991082

Option 4 ID : 6306801991083

Status : Answered

Chosen Option : 3

Q.18 Find the quantity of brickwork for underground septic tank shown in the given figure.



- Ans
- ☒ 1. 9.673 m³
 - ☒ 2. 6.415 m³
 - ☒ 3. 7.895 m³
 - ☒ 4. 10.641 m³

Question ID : 630680339579
 Option 1 ID : 6306801320838
 Option 2 ID : 6306801320840
 Option 3 ID : 6306801320837
 Option 4 ID : 6306801320839
 Status : Not Answered
 Chosen Option : --

Q.19 When an economical canal cross-section is formed partly in cutting and partly in filling, such that the quantity of earth in cutting is equal to the quantity of earth in filling, the depth of cutting under that situation is known as _____.

- Ans
- ☒ 1. Uniform depth
 - ☒ 2. Balancing depth
 - ☒ 3. Economical depth
 - ☒ 4. Critical depth

Question ID : 630680504324
 Option 1 ID : 6306801970860
 Option 2 ID : 6306801970858
 Option 3 ID : 6306801970857
 Option 4 ID : 6306801970859
 Status : Answered
 Chosen Option : 2

Q.20 Using plinth area method, estimate the construction cost of a building having plinth area of 15 m^2 , if the plinth area rate is Rs.2000/- per m^2 .

- Ans ☒ 1. ₹30,000
☒ 2. ₹20,000
☒ 3. ₹25,000
☒ 4. ₹15,000

Question ID : 630680504106
Option 1 ID : 6306801969985
Option 2 ID : 6306801969987
Option 3 ID : 6306801969986
Option 4 ID : 6306801969988
Status : Answered
Chosen Option : 1

Q.21 A material has the modulus of elasticity equal to 3 times its modulus of rigidity. Which of the following statements may be INCORRECT?

- Ans ☒ 1. Volumetric strain is equal to zero.
☒ 2. Poisson's ratio is equal to 0.5.
☒ 3. The bulk modulus is infinite.
☒ 4. There is a change in the volume of the material.

Question ID : 630680509118
Option 1 ID : 6306801989767
Option 2 ID : 6306801989768
Option 3 ID : 6306801989769
Option 4 ID : 6306801989770
Status : Answered
Chosen Option : 4

Q.22 Calculate the hoop tension developed at the base of wall in a circular water tank, having diameter 12.6 m and depth of water storage 4m. Take specific weight of water as 10 kN/m^3 .

- Ans ☒ 1. 504 kN
☒ 2. 200 kN
☒ 3. 252 kN
☒ 4. 152 kN

Question ID : 630680377305
Option 1 ID : 6306801470283
Option 2 ID : 6306801470285
Option 3 ID : 6306801470286
Option 4 ID : 6306801470284
Status : Not Answered
Chosen Option : --

Q.23 The Los Angeles testing machine is commonly used to determine which property of the coarse aggregate?

- Ans ☒ 1. Abrasion resistance
☐ 2. Water absorption
☐ 3. Specific gravity
☐ 4. Density

Question ID : 630680503297
Option 1 ID : 6306801966774
Option 2 ID : 6306801966773
Option 3 ID : 6306801966776
Option 4 ID : 6306801966775
Status : Answered
Chosen Option : 1

Q.24 The following is the data sheet from a levelling book. The INCORRECT option is _____.

Station	BS	IS	FS	RL	Remark
Q	-3.45			150	BM
R		2.60			
S	1.60		2.25		CP
T		1.85			
U	2.15		1.70		CP
V			-2.35		

BS = Back Sight, HI=Height of instrument, IS = Intermediate Sight, FS = Fore Sight, RL = Reduced Level, BM = Bench Mark and CP = Change Point)
(All figures are in metre.)

- Ans ☐ 1. RL of Station S is 144.30 m
☒ 2. RL of Station U is 142.35 m
☐ 3. HI at Station T is 145.90 m
☐ 4. HI at Station R is 146.55 m

Question ID : 630680506219
Option 1 ID : 6306801978394
Option 2 ID : 6306801978396
Option 3 ID : 6306801978395
Option 4 ID : 6306801978393
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.25 Which of the following compounds gives rapid hardening with an early gain in strength with a higher heat of hydration in OPC Cement?

- Ans ☒ 1. C_3S
☐ 2. C_4AF
☐ 3. C_2S
☐ 4. C_3A

Question ID : 630680509699
Option 1 ID : 6306801992003
Option 2 ID : 6306801992001
Option 3 ID : 6306801992002
Option 4 ID : 6306801992004
Status : Answered
Chosen Option : 1

Q.26 Which of the following types of soil is known for its high load-bearing capacity and stability, making it ideal for use in construction of foundations?

- Ans ☐ 1. Silty soil
- ☒ 2. Sandy soil
- ☐ 3. Peat soil
- ☐ 4. Clay soil

Question ID : 630680357666
Option 1 ID : 6306801392655
Option 2 ID : 6306801392653
Option 3 ID : 6306801392656
Option 4 ID : 6306801392654
Status : Answered
Chosen Option : 4

Q.27 Pumping of water from earth surface to the overhead tank located at relatively higher elevation is an example for_____

- Ans ☐ 1. Compressible flow
- ☒ 2. pressure flow
- ☐ 3. gravity flow
- ☐ 4. both gravity flow and pressure flow

Question ID : 630680506968
Option 1 ID : 6306801981380
Option 2 ID : 6306801981378
Option 3 ID : 6306801981377
Option 4 ID : 6306801981379
Status : Answered
Chosen Option : 2

Q.28 Which of the following is correct expression to find the hypotenusal allowance used to compute horizontal distance on a sloping ground?, where Θ =Angle of sloped ground

- Ans ☒ 1. Measured length on sloped ground($\sec\Theta - 1$)
- ☐ 2. Measured length on sloped ground($1 - \sec\Theta$)²
- ☐ 3. Measured length on sloped ground($1 - \cos\Theta$)
- ☐ 4. Measured length on sloped ground($1 - \cos\Theta$)²

Question ID : 630680163143
Option 1 ID : 630680631796
Option 2 ID : 630680631797
Option 3 ID : 630680631798
Option 4 ID : 630680631799
Status : Answered
Chosen Option : 1

Q.29 According to Kennedy's theory, if the velocity of the flow is such that there is no silting or scouring action in the canal bed, then that velocity is known as _____.

- Ans
- ☒ 1. mean velocity
 - ☒ 2. critical velocity
 - ☒ 3. absolute velocity
 - ☒ 4. normal velocity

Question ID : 630680504291
Option 1 ID : 6306801970726
Option 2 ID : 6306801970727
Option 3 ID : 6306801970728
Option 4 ID : 6306801970725
Status : Answered
Chosen Option : 2

Q.30 A simply supported RCC beam of effective length 5 m and section of size 200 mm × 300 mm is having flexural strength of 18 kN-m. Calculate the maximum external udl that can be applied to the beam before failure. Take self-weight as 1 kN/m.

- Ans
- ☒ 1. 5.76 kN/m
 - ☒ 2. 6.76 kN/m
 - ☒ 3. 3.76 kN/m
 - ☒ 4. 4.76 kN/m

Question ID : 630680509659
Option 1 ID : 6306801991841
Option 2 ID : 6306801991843
Option 3 ID : 6306801991844
Option 4 ID : 6306801991842
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.31 In which of the following staircase classifications is the stair slab supported parallel to the riser at two or more locations, causing the slab to bend longitudinally between the supports?

- Ans
- ☒ 1. Slab cantilevered from a spandrel beam or wall
 - ☒ 2. Stair slab spanning longitudinally
 - ☒ 3. Slab supported between two stringer beams or walls
 - ☒ 4. Slab doubly cantilevered from a central spine beam

Question ID : 630680403895
Option 1 ID : 6306801575066
Option 2 ID : 6306801575067
Option 3 ID : 6306801575069
Option 4 ID : 6306801575068
Status : Not Answered
Chosen Option : --

Q.32 While designing an RCC footing on soil, what should be the minimum thickness of the edge of footing as per IS 456:2000?

- Ans
- ☐ 1. 200 mm
 - ☐ 2. 50 mm
 - ☒ 3. 150 mm
 - ☐ 4. 75 mm

Question ID : 630680509653

Option 1 ID : 6306801991820

Option 2 ID : 6306801991817

Option 3 ID : 6306801991819

Option 4 ID : 6306801991818

Status : Answered

Chosen Option : 3

Q.33 What do the three Rs in the 3R Principle stand for?

- Ans
- ☒ 1. Reduce, Reuse, Recycle
 - ☐ 2. Reduce, Recover, Recycle
 - ☐ 3. Reduce, Reuse, Recover
 - ☐ 4. Recover, Reuse, Recycle

Question ID : 630680509494

Option 1 ID : 6306801991245

Option 2 ID : 6306801991247

Option 3 ID : 6306801991246

Option 4 ID : 6306801991248

Status : Answered

Chosen Option : 1

Q.34 Which of the following staff readings is/are taken at a turning point, that necessitates instruments change point in levelling work?

- A)Fore sight
B)Back sight
C)Intermediate sight

- Ans
- ☐ 1. Both A and C
 - ☐ 2. Only B
 - ☒ 3. Both A and B
 - ☐ 4. Only A

Question ID : 630680382438

Option 1 ID : 6306801490669

Option 2 ID : 6306801490668

Option 3 ID : 6306801490670

Option 4 ID : 6306801490667

Status : Answered

Chosen Option : 3

Q.35 As per Indian Road Congress, what is the design speed adopted for Indian Expressways?, Consider the nature of terrain is 'Plain' and Cross slope of ground is less than 10%.

- Ans ☒ 1. 120 km/h
☐ 2. 80 km/h
☐ 3. 60 km/h
☐ 4. 100 km/h

Question ID : 630680198268

Option 1 ID : 630680769244

Option 2 ID : 630680769245

Option 3 ID : 630680769243

Option 4 ID : 630680769246

Status : Answered

Chosen Option : 1

Q.36 Which of the following parts of a rebound test apparatus moves with the mass attached to the spring after bouncing back?

- Ans ☐ 1. Release button
☐ 2. Scale
☐ 3. Plunger
☒ 4. Rider

Question ID : 630680381563

Option 1 ID : 6306801487185

Option 2 ID : 6306801487184

Option 3 ID : 6306801487186

Option 4 ID : 6306801487183

Status : Answered

Chosen Option : 3

Q.37 Identify the correct methods of surface preparation used for joining old and new concrete to each other.

- i) Sandblasting
ii) Chipping
iii) Removal of surface by grinding

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

Question ID : 630680340607

Option 1 ID : 6306801324871

Option 2 ID : 6306801324872

Option 3 ID : 6306801324869

Option 4 ID : 6306801324870

Status : Not Answered

Chosen Option : --

Q.38 Which of the following paints has the least adhesive power on smooth surface and is ideal for rough surfaces?

- Ans ☐ 1. Luminous paint
☐ 2. Enamel paint
☐ 3. Aluminium paint
☒ 4. Cement paint

Question ID : 630680509693
Option 1 ID : 6306801991978
Option 2 ID : 6306801991977
Option 3 ID : 6306801991979
Option 4 ID : 6306801991980
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.39 Select the option that is appropriate regarding the following two statements labelled Assertion and Reason.
Assertion: A cross regulator is provided on the main canal at the downstream side of the take-off to head up the water level and to enable the off-taking channel to draw the required amount of water.
Reason: During the periods of low discharges in the parent channel, the cross regulator raises the water level of the upstream and feeds the off-take channel.

- Ans ☐ 1. Both Assertion and Reason are false.
☒ 2. Both Assertion and Reason are true and Reason is the correct explanation of Assertion.
☐ 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 : 630680504330
Option 1 ID : 6306801970884
Option 2 ID : 6306801970881
Option 3 ID : 6306801970882
Option 4 ID : 6306801970883
Status : Answered
Chosen Option : 2

Q.40 In approximate quantity method of estimation, earthwork excavation is measured in _____.

- Ans ☐ 1. cubic feet
☒ 2. running metre
☐ 3. cubic metre
☐ 4. square metre

Question ID : 630680504124
Option 1 ID : 6306801970060
Option 2 ID : 6306801970057
Option 3 ID : 6306801970059
Option 4 ID : 6306801970058
Status : Answered
Chosen Option : 3

Q.41 Which of the following is NOT a field of application of rapid-hardening cement?

- Ans ☒ 1. Road repair works
☒ 2. Cold weather concreting
☒ 3. Pre-fabricated concrete production
☒ 4. Massive dams

Question ID : 630680503289
Option 1 ID : 6306801966742
Option 2 ID : 6306801966743
Option 3 ID : 6306801966741
Option 4 ID : 6306801966744
Status : Answered
Chosen Option : 4

Q.42 Magnetic bearing of a line is $10^{\circ}30'$ and the magnetic declination is 2° East. If, due to seasonal variations, the magnetic declination changes to 2° West, find the magnetic bearing of the line in quadrantal bearing system.

- Ans ☒ 1. N $10^{\circ}30'$ W
☒ 2. N $14^{\circ}30'$ E
☒ 3. N $14^{\circ}30'$ W
☒ 4. N $10^{\circ}30'$ E

Question ID : 630680506243
Option 1 ID : 6306801978492
Option 2 ID : 6306801978491
Option 3 ID : 6306801978490
Option 4 ID : 6306801978489
Status : Answered
Chosen Option : 2

Q.43 Which type of lime is commonly used in soil stabilisation to improve the engineering properties of clay soils and enhance their load-bearing capacity?

- Ans ☒ 1. Slaked lime
☒ 2. Dolomitic lime
☒ 3. Fat lime
☒ 4. Hydrated lime or Quicklime

Question ID : 630680383117
Option 1 ID : 6306801493378
Option 2 ID : 6306801493377
Option 3 ID : 6306801493376
Option 4 ID : 6306801493375
Status : Answered
Chosen Option : 4

Q.44 The main components of a hydrological cycle can be classified as transportation components and storage components. An example of a storage component of the hydrological cycle is _____.

- Ans ☒ 1. groundwater
 ☐ 2. runoff
 ☐ 3. transpiration
 ☐ 4. precipitation

Question ID : 630680504308
Option 1 ID : 6306801970795
Option 2 ID : 6306801970796
Option 3 ID : 6306801970794
Option 4 ID : 6306801970793
Status : Answered
Chosen Option : 1

Q.45 On what principle does a reciprocating pump work?

- Ans ☐ 1. Rotation of impeller to develop lifting pressure
 ☐ 2. Forced vortex flow
 ☐ 3. Centrifugal force
 ☒ 4. Create a reciprocating motion by sucking and discharge of fluid by using piston

Question ID : 630680385090
Option 1 ID : 6306801501247
Option 2 ID : 6306801501249
Option 3 ID : 6306801501246
Option 4 ID : 6306801501248
Status : Answered
Chosen Option : 4

Q.46 An oil of mass density 800 kg/m^3 is contained in a vessel. Calculate the height of water required to develop an equivalent hydrostatic pressure as that developed by oil of height 30 m. Take acceleration due to gravity as 9.81 m/sec^2

- Ans ☒ 1. 24 m
 ☐ 2. 42 m
 ☐ 3. 32 m
 ☐ 4. 23 m

Question ID : 630680385109
Option 1 ID : 6306801501323
Option 2 ID : 6306801501322
Option 3 ID : 6306801501324
Option 4 ID : 6306801501325
Status : Answered
Chosen Option : 1

Q.47 Select the option that is appropriate regarding the following two statements labelled Assertion and Reason.

Assertion: A gravity weir is the one in which uplift pressure caused by seepage of water below the floor is resisted entirely by the weight of the floor.

Reason: In the non-gravity type weir, the floor thickness is kept relatively less and the uplift pressure is largely resisted by the bending action of the reinforced concrete floor.

Ans ☒ 1. Assertion is true, but Reason is false.

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

☒ 3. Both Assertion and Reason are false.

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

Question ID : 630680504318

Option 1 ID : 6306801970835

Option 2 ID : 6306801970833

Option 3 ID : 6306801970836

Option 4 ID : 6306801970834

Status : Marked For Review

Chosen Option : 2

Q.48 What are the latitude and the departure of a 300 m traverse line with a bearing of 240°?

Ans ☒ 1. Latitude = - 150 m and departure = $-\frac{450}{\sqrt{3}}$ m

☒ 2. Latitude = $\frac{450}{\sqrt{3}}$ m and departure = 150 m

☒ 3. Latitude = 150 m and departure = $\frac{450}{\sqrt{3}}$ m

☒ 4. Latitude = $-\frac{450}{\sqrt{3}}$ m and departure = - 150 m

Question ID : 630680506221

Option 1 ID : 6306801978402

Option 2 ID : 6306801978404

Option 3 ID : 6306801978401

Option 4 ID : 6306801978403

Status : Answered

Chosen Option : 3

Q.49 How much deduction should be made in the hollows of blocks during a hollow concrete block wall construction?

Ans ☒ 1. All openings

☒ 2. Half of the openings

☒ 3. No deduction

☒ 4. Width deduction

Question ID : 630680504091

Option 1 ID : 6306801969927

Option 2 ID : 6306801969928

Option 3 ID : 6306801969925

Option 4 ID : 6306801969926

Status : Answered

Chosen Option : 3

Q.50 Match the following.

Treatment	Objective of Treatment
I. Skimming tank	A. To remove floating objects
II. Detritus tank	B. To remove finer particles
III. Screening	

Ans ☒ 1. I-A, II-B, III-A

☐ 2. I-B, II-B, III-A

☐ 3. I-A, II-B, III-B

☐ 4. I-A, II-A, III-A

Question ID : 630680509502

Option 1 ID : 6306801991277

Option 2 ID : 6306801991279

Option 3 ID : 6306801991278

Option 4 ID : 6306801991280

Status : Answered

Chosen Option : 2

Q.51 Which section of reinforced concrete structure typically does NOT experience moment reduction due to moment redistribution?

Ans ☐ 1. Beam

☐ 2. Flat slabs

☒ 3. continuous slab

☐ 4. Slab

Question ID : 630680398046

Option 1 ID : 6306801552199

Option 2 ID : 6306801552198

Option 3 ID : 6306801552200

Option 4 ID : 6306801552201

Status : Answered

Chosen Option : 1

Q.52 Consider a rectangular column cross section of size 4 m × 2 m. Identify the correct statement.

Ans ☐ 1. The point load shall be applied within the 1.5 m from the centre to avoid tension in the cross section.

☒ 2. The point load shall be applied within the rhombus located at centre with diagonals size 1.33 m×0.66m to ensure no tensile stresses developed in column cross section

☐ 3. The limit of eccentricity for axial compressive load is 1 m measured from the C.G of the cross section for not to have tensile stresses in the section.

☐ 4. The core of the section is a square of size 0.6 m.

Question ID : 630680426812

Option 1 ID : 6306801665326

Option 2 ID : 6306801665328

Option 3 ID : 6306801665325

Option 4 ID : 6306801665327

Status : Not Answered

Chosen Option : --

Q.53 During the calibration of a rectangular suppressed weir in a 40 cm crest width laboratory channel, the discharge passing over the weir was measured volumetrically. What is the coefficient of discharge of the weir if it was found to pass a discharge of $0.025 \text{ m}^3/\text{sec}$ under the head of 0.1 m?

- Ans
- ☒ 1. $C_d = 0.75$
 - ☒ 2. $C_d = 0.89$
 - ☒ 3. $C_d = 0.66$
 - ☒ 4. $C_d = 0.92$

Question ID : 630680506984
Option 1 ID : 6306801981443
Option 2 ID : 6306801981441
Option 3 ID : 6306801981442
Option 4 ID : 6306801981444
Status : Answered
Chosen Option : 3

Q.54 As per IS 800:2007, the slenderness ratio (λ) of a steel member is given by _____. Where, L=Effective length of member, r=Radius of gyration of member.

- Ans
- ☒ 1. $\lambda = L - r$
 - ☒ 2. $\lambda = L + r$
 - ☒ 3. $\lambda = L / r$
 - ☒ 4. $\lambda = L \times r$

Question ID : 630680326680
Option 1 ID : 6306801270800
Option 2 ID : 6306801270799
Option 3 ID : 6306801270797
Option 4 ID : 6306801270798
Status : Answered
Chosen Option : 3





Q.55 Which of the following statements about municipal solid waste is INCORRECT?

- Ans
- ☒ 1. It is solid waste that is transported with water as sewage.
 - ☒ 2. It consists of fine dust, silt and sand.
 - ☒ 3. It consists of garbage.
 - ☒ 4. It includes putrescible and non-putrescible solid wastes.

Question ID : 630680509482
Option 1 ID : 6306801991200
Option 2 ID : 6306801991199
Option 3 ID : 6306801991198
Option 4 ID : 6306801991197
Status : Answered
Chosen Option : 2

Q.56 Match the major dams of India with their types.

Dam	Type
A. Bhakra Dam	1. Arch dam
B. Idukki Dam	2. Earthen dam
C. Banasura Sagar Dam	3. Gravity dam

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

Question ID : 630680504293
Option 1 ID : 6306801970733
Option 2 ID : 6306801970736
Option 3 ID : 6306801970734
Option 4 ID : 6306801970735

Status : Answered

Chosen Option : 3

Q.57 Match the major dams of India with the rivers on which they are built.

Dam	River
A. Nagarjun Sagar Dam	1. Bhagirathi
B. Hirakud Dam	2. Krishna
C. Tehri Dam	3. Mahanadi

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

Question ID : 630680504294
Option 1 ID : 6306801970739
Option 2 ID : 6306801970737
Option 3 ID : 6306801970740
Option 4 ID : 6306801970738

Status : Answered

Chosen Option : 1

Q.58 Identify the correct option by considering the given statements with respect to overtaking sight distance.

Statement A: Minimum overtaking sight distance required for the safe overtaking manoeuvre depends on skill and reaction time of driver.

Statement B: Minimum overtaking sight distance required for the safe overtaking manoeuvre depends on gradient of road.

- Ans**
- ☒ 1. Both the statements are incorrect
 - ☒ 2. Statement A is correct, but B is incorrect
 - ☒ 3. Both the statements are correct
 - ☒ 4. Statement B is correct, but A is incorrect

Question ID : 630680199599

Option 1 ID : 630680774006

Option 2 ID : 630680774003

Option 3 ID : 630680774005

Option 4 ID : 630680774004

Status : Answered

Chosen Option : 2

Q.59 Which of the following Informatory signs necessarily have rectangular/square shape with blue background and white/black letters or symbols?

i.Speed limit signs

ii.Facility Information signs

iii.Parking signs

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

Question ID : 630680509073

Option 1 ID : 6306801989588

Option 2 ID : 6306801989590

Option 3 ID : 6306801989587

Option 4 ID : 6306801989589

Status : Answered

Chosen Option : 1

Q.60 The Moody chart, a logarithmic chart between friction factor and _____ for a variety of relative roughness in a pipe flow.

- Ans**
- ☒ 1. the discharge of the flow
 - ☒ 2. the velocity of the flow
 - ☒ 3. the density of the fluid
 - ☒ 4. Reynolds number

Question ID : 630680506975

Option 1 ID : 6306801981406

Option 2 ID : 6306801981405

Option 3 ID : 6306801981407

Option 4 ID : 6306801981408

Status : Answered

Chosen Option : 4

Q.61 As per IRC specifications, the maximum spacing of contraction joints in reinforced cement concrete slab of thickness 20 cm is _____.

- Ans ☐ 1. 4.5 m
☐ 2. 10 m
☒ 3. 14 m
☐ 4. 40 m

Question ID : 630680509457
Option 1 ID : 6306801991098
Option 2 ID : 6306801991097
Option 3 ID : 6306801991100
Option 4 ID : 6306801991099
Status : Answered
Chosen Option : 3

Q.62 Calculate the effective depth of a cantilever beam of span 2.5m, based on the provisions given on 'effective depth ratios for spans up to 10m' in IS 456 : 2000

- Ans ☐ 1. 500 mm
☐ 2. 250 mm
☒ 3. 357.14 mm
☐ 4. 457 mm

Question ID : 630680377298
Option 1 ID : 6306801470256
Option 2 ID : 6306801470255
Option 3 ID : 6306801470257
Option 4 ID : 6306801470258
Status : Answered
Chosen Option : 3

Q.63 To obtain the liquid limit of a soil, a graph is plotted between :

- Ans ☒ 1. water content and number of blows
☐ 2. volume of soil and water content
☐ 3. dry density and water content
☐ 4. void ratio of soil and number of blows.

Question ID : 630680504529
Option 1 ID : 6306801971677
Option 2 ID : 6306801971678
Option 3 ID : 6306801971680
Option 4 ID : 6306801971679
Status : Answered
Chosen Option : 1

Q.64 The _____ process is a type of process mainly used to recover energy from solids in one form or another.

- Ans ☐ 1. pressure
☐ 2. chemical
☐ 3. biological
☒ 4. thermal

Question ID : 630680509491
Option 1 ID : 6306801991234
Option 2 ID : 6306801991236
Option 3 ID : 6306801991235
Option 4 ID : 6306801991233
Status : Answered
Chosen Option : 4

Q.65 Which of the following precautions need to be adopted for concreting in sub-zero temperature?

- (i) Pre-heating of materials of concrete
- (ii) Economical heating of materials of concrete
- (iii) Admixtures of anti-freezing materials
- (iv) Electrical heating of concrete mass

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

Question ID : 630680503293
Option 1 ID : 6306801966759
Option 2 ID : 6306801966758
Option 3 ID : 6306801966760
Option 4 ID : 6306801966757
Status : **Marked For Review**
Chosen Option : 1

Q.66 Which of the following scenario explains the term 'skid' experienced by vehicles?

Ans ☒ 1. It occurs when the roads surface is rough and develop sufficient frictional resistance
☒ 2. Occurs when a wheel revolves more than the corresponding longitudinal movement.
☒ 3. Occurs when driving wheel of a vehicle rapidly accelerates from stationary position.
☒ 4. Occurs when path travelled along road surface is more than circumferential movement of the wheels due to their rotation.

Question ID : 630680397866
Option 1 ID : 6306801551479
Option 2 ID : 6306801551478
Option 3 ID : 6306801551481
Option 4 ID : 6306801551480
Status : **Answered**
Chosen Option : 4

Q.67 Select the option that is appropriate regarding the following two statements labelled Assertion and Reason.

Assertion: The season wherein crops are sown by the beginning of south west monsoon and harvested in autumn is called Kharif season.
Reason: The Kharif season ranges from October to March.

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

Question ID : 630680504345
Option 1 ID : 6306801970944
Option 2 ID : 6306801970942
Option 3 ID : 6306801970943
Option 4 ID : 6306801970941
Status : **Answered**
Chosen Option : 1

Q.68 Which of the following statements about carbon credits is INCORRECT?

- Ans ☒ 1. Carbon credits correspond to a determined tradable quantity of greenhouse gas emissions.
- ☒ 2. Carbon credits are used in signatory countries to the Kyoto Protocol.
- ☒ 3. Carbon credits are created when greenhouse gases rise above a baseline.
- ☒ 4. The carbon credit system makes emissions a commodity.

Question ID : 630680509514
Option 1 ID : 6306801991325
Option 2 ID : 6306801991328
Option 3 ID : 6306801991327
Option 4 ID : 6306801991326
Status : Not Answered
Chosen Option : --

Q.69 Following the fundamental principles of surveying, the minimum number of control points required for establishing a new station is _____.

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

Question ID : 630680192170
Option 1 ID : 630680745281
Option 2 ID : 630680745283
Option 3 ID : 630680745284
Option 4 ID : 630680745282
Status : Answered
Chosen Option : 1

Q.70 As per Euler's theory, for which of the following end conditions is the longest effective length of a column obtained?

- Ans ☒ 1. When both the ends of the column are fixed
- ☒ 2. When both the ends of the column are hinged
- ☒ 3. When one end of the column is fixed and the other end is hinged
- ☒ 4. When one end of the column is fixed and the other end is free

Question ID : 630680338712
Option 1 ID : 6306801317501
Option 2 ID : 6306801317503
Option 3 ID : 6306801317504
Option 4 ID : 6306801317502
Status : Answered
Chosen Option : 4

Q.71 What are fixed time traffic signals?

- Ans ☒ 1. Signals that change timing based on traffic flow
- ☒ 2. Signals that have a fixed duration for each phase
- ☒ 3. Signals that adjust timing based on weather conditions
- ☒ 4. Signals that are manually controlled by a traffic officer

Question ID : 630680377393
Option 1 ID : 6306801470635
Option 2 ID : 6306801470636
Option 3 ID : 6306801470637
Option 4 ID : 6306801470638
Status : Answered
Chosen Option : 2

Q.72 Identify the INCORRECT statement with respect to concrete Stress block in compression of a singly reinforced cement concrete section.

- Ans ☒ 1. The bending stress at the neutral axis of the section is zero.
- ☒ 2. The bending stress at extreme fibre is $0.67 f_{ck}$.
- ☒ 3. The depth of centre of compressive force from the extreme top fibre in compression is $0.42x_u$.
- ☒ 4. The area of stress block is equal to $0.36f_{ck}x_u$.

Question ID : 630680218642

Option 1 ID : 630680848476

Option 2 ID : 630680848477

Option 3 ID : 630680848478

Option 4 ID : 630680848475

Status : Answered

Chosen Option : 4

Q.73 The sound pressure is measured in:

- Ans ☒ 1. watt
- ☒ 2. decibel
- ☒ 3. hertz
- ☒ 4. N/m^2

Question ID : 630680392538

Option 1 ID : 6306801530501

Option 2 ID : 6306801530498

Option 3 ID : 6306801530499

Option 4 ID : 6306801530500

Status : Answered

Chosen Option : 2

Q.74 Ozone layer is important for us to protect us from UV rays. Which of the following is correct regarding ozone?

- Ans ☒ 1. Ozone is a pollutant gas for both animals and human beings.
- ☒ 2. Ozone is a pollutant gas for human beings and non-pollutant gas for animals.
- ☒ 3. Ozone gets converted into oxygen in the human body.
- ☒ 4. Ozone is a non-pollutant gas.

Question ID : 630680370936

Option 1 ID : 6306801445069

Option 2 ID : 6306801445068

Option 3 ID : 6306801445070

Option 4 ID : 6306801445067

Status : Answered

Chosen Option : 4

Q.75 In approximate quantities method of preparing approximate estimate, wall foundations are measured in _____.

- Ans ☒ 1. square metre
- ☒ 2. metre
- ☒ 3. cubic metre
- ☒ 4. kilogram

Question ID : **630680504130**
Option 1 ID : **6306801970082**
Option 2 ID : **6306801970081**
Option 3 ID : **6306801970083**
Option 4 ID : **6306801970084**
Status : **Answered**
Chosen Option : **3**

Q.76 The capacity of doing work by a skilled labour in the form of quantity of work per day is known as _____.

- Ans ☒ 1. standard work
- ☒ 2. extra work
- ☒ 3. outturn work
- ☒ 4. lift work

Question ID : **630680211782**
Option 1 ID : **630680821275**
Option 2 ID : **630680821276**
Option 3 ID : **630680821277**
Option 4 ID : **630680821278**
Status : **Answered**
Chosen Option : **3**

Q.77 Which of the following is the purpose of providing catch pits in a sewer system?

- Ans ☒ 1. To prevent the entry of silt, grit, debris, etc. contained in the rainwater
- ☒ 2. To provide a connection between the high-level branch sewer to the low-level main sewer
- ☒ 3. To hold and throw water into the sewer
- ☒ 4. To exclude grease and oil from sewage

Question ID : **630680509476**
Option 1 ID : **6306801991173**
Option 2 ID : **6306801991174**
Option 3 ID : **6306801991175**
Option 4 ID : **6306801991176**
Status : **Answered**
Chosen Option : **1**

Q.78 If a cantilever beam is subjected to an upward point load at the free end, the nature of the stresses developed will be:

- Ans** ☒ 1. compressive above the neutral axis and tensile below the neutral axis of the beam cross-section
- ☐ 2. compressive below as well as above the neutral axis of the beam cross-section
- ☐ 3. tensile above the neutral axis and compressive below the neutral axis of the beam cross-section
- ☐ 4. tensile above as well as below the neutral axis of the beam cross-section

Question ID : 630680338690
Option 1 ID : 6306801317413
Option 2 ID : 6306801317415
Option 3 ID : 6306801317414
Option 4 ID : 6306801317416
Status : Answered
Chosen Option : 1

Q.79 Which of the following statements gives an INCORRECT application of GPS?

- Ans** ☒ 1. GPS can be used to determine the position of a point in deep, underground mines.
- ☐ 2. GPS can be used to track the movement of vehicles.
- ☐ 3. GPS can be used to determine the time accurately.
- ☐ 4. GPS can be used for preparation of maps.

Question ID : 630680506216
Option 1 ID : 6306801978383
Option 2 ID : 6306801978384
Option 3 ID : 6306801978382
Option 4 ID : 6306801978381
Status : Answered
Chosen Option : 3

Q.80 _____ determines the thickness of plywood board.

- Ans** ☐ 1. plie length
- ☒ 2. number of plie layers
- ☐ 3. plie area
- ☐ 4. plie width

Question ID : 630680198677
Option 1 ID : 630680770667
Option 2 ID : 630680770670
Option 3 ID : 630680770668
Option 4 ID : 630680770669
Status : Answered
Chosen Option : 2

Q.81 The formal acceptance of the proposal of a work by the concerned department is known as _____.

- Ans ☒ 1. administrative approval
☐ 2. technical approval
☐ 3. preliminary approval
☐ 4. proposal approval

Question ID : 630680504140
Option 1 ID : 6306801970121
Option 2 ID : 6306801970122
Option 3 ID : 6306801970123
Option 4 ID : 6306801970124
Status : Not Answered
Chosen Option : --

Q.82 Which of the following type of asphalt is better suited for surface sealing and dust control in flexible pavements?

- Ans ☐ 1. Cold mix asphalt
☐ 2. Hot mix asphalt
☒ 3. Emulsified asphalt
☐ 4. Cutback asphalt

Question ID : 630680383114
Option 1 ID : 6306801493366
Option 2 ID : 6306801493365
Option 3 ID : 6306801493364
Option 4 ID : 6306801493363
Status : Not Answered
Chosen Option : --

Q.83 Identify whether the following statements are true or false.
Statement I: Domestic sewage is a major source of water pollution.
Statement II: Water collected/available at source will always be pure.

- Ans ☐ 1. Both Statements I and II are true
☒ 2. Statement I is true, but Statement II is false
☐ 3. Both Statements I and II are false
☐ 4. Statement I is false and Statement II is true

Question ID : 630680509499
Option 1 ID : 6306801991267
Option 2 ID : 6306801991265
Option 3 ID : 6306801991268
Option 4 ID : 6306801991266
Status : Answered
Chosen Option : 2

Q.84 Self-priming pumps overshadow the function of the _____.

- Ans ☐ 1. wear rate
- ☒ 2. self-auxiliary device
- ☐ 3. corrosion device
- ☐ 4. cavitation device

Question ID : 630680506958
Option 1 ID : 6306801981338
Option 2 ID : 6306801981337
Option 3 ID : 6306801981339
Option 4 ID : 6306801981340
Status : Answered
Chosen Option : 1

Q.85 Which of the following statements is INCORRECT?

- Ans ☐ 1. The natural outflow of groundwater at the Earth's surface is said to form a spring.
- ☐ 2. Infiltration well is a sub-surface source of water.
- ☒ 3. A cavity type tube well draws water from the bottom as well as from the sides of the well.
- ☐ 4. Surface sources of water are generally contaminated and cannot be used without treatment.

Question ID : 630680509465
Option 1 ID : 6306801991131
Option 2 ID : 6306801991129
Option 3 ID : 6306801991130
Option 4 ID : 6306801991132
Status : Answered
Chosen Option : 3

Q.86 Two simply supported beams with central (mid span) concentrated loads have the following particulars. Compare the slope at the ends.

Particulars	Beam A	Beam B
Length of the beam	5 m	10 m
EI	EI	2EI
Value of central concentrated load	2 kN	1 kN

- Ans ☐ 1. Slope of beam A > Slope of beam B
- ☐ 2. Slope of beam A < Slope of beam B
- ☒ 3. Slope of beam A = Slope of beam B
- ☐ 4. Insufficient data to compare the slopes

Question ID : 630680426832
Option 1 ID : 6306801665405
Option 2 ID : 6306801665406
Option 3 ID : 6306801665407
Option 4 ID : 6306801665408
Status : Answered
Chosen Option : 3

Q.87 How does the atmospheric pressure (AP) vary with respect to the altitude?

- Ans
- ☐ 1. It remains constant at all heights
 - ☐ 2. AP either increases or decreases depending only on temperature
 - ☐ 3. AP increases with increase in altitude
 - ☒ 4. AP decreases with increase in altitude

Question ID : 630680412950

Option 1 ID : 6306801610626

Option 2 ID : 6306801610625

Option 3 ID : 6306801610623

Option 4 ID : 6306801610624

Status : Answered

Chosen Option : 4

Q.88 The priming of a centrifugal pump is necessary:

- Ans
- ☐ 1. to reduce pressure
 - ☐ 2. to reduce the temperature of water
 - ☐ 3. to increase discharge
 - ☒ 4. to remove air from the parts of the pump

Question ID : 630680385082

Option 1 ID : 6306801501217

Option 2 ID : 6306801501215

Option 3 ID : 6306801501216

Option 4 ID : 6306801501214

Status : Answered

Chosen Option : 4

Q.89 For a given soil sample, with increase in compaction effort, the Optimum Moisture Content (OMC) (Assume all other factors remain the same)

- Ans
- ☐ 1. first increases and then, decreases
 - ☒ 2. Decreases
 - ☐ 3. first decreases and then, increases
 - ☐ 4. Increases

Question ID : 630680181940

Option 1 ID : 630680704996

Option 2 ID : 630680704994

Option 3 ID : 630680704997

Option 4 ID : 630680704995

Status : Answered

Chosen Option : 1

Q.90 Which of the following is NOT the main criterion for selection of hydraulic pumps?

- Ans
- ☐ 1. Pressure at inlet and outlet of the pump
 - ☐ 2. Flow rate requirement
 - ☒ 3. atmospheric pressure
 - ☐ 4. Viscosity of fluid to be pumped

Question ID : 630680506954

Option 1 ID : 6306801981324

Option 2 ID : 6306801981321

Option 3 ID : 6306801981322

Option 4 ID : 6306801981323

Status : Answered

Chosen Option : 3

Q.91 Tellurometer, a long-range EDM, uses _____ for distance measurement.

- Ans ☐ 1. visible light waves
☒ 2. microwaves
☐ 3. ultraviolet waves
☐ 4. infrared waves

Question ID : 630680506237
Option 1 ID : 6306801978466
Option 2 ID : 6306801978465
Option 3 ID : 6306801978468
Option 4 ID : 6306801978467
Status : Answered
Chosen Option : 2

Q.92 Which of the following types of fibre is classified as a synthetic fibre?

- Ans ☐ 1. Jute fibre
☐ 2. Basalt fibre
☐ 3. Steel fibre
☒ 4. Polyester fibre

Question ID : 630680357695
Option 1 ID : 6306801392769
Option 2 ID : 6306801392772
Option 3 ID : 6306801392770
Option 4 ID : 6306801392771
Status : Answered
Chosen Option : 4

Q.93 As per the Indian standard code (2470 - 1985, Part 1), the minimum width of the septic tank assumed for design purpose is _____.

- Ans ☐ 1. 100 cm
☐ 2. 125 cm
☐ 3. 50 cm
☒ 4. 75 cm

Question ID : 630680339568
Option 1 ID : 6306801320795
Option 2 ID : 6306801320796
Option 3 ID : 6306801320793
Option 4 ID : 6306801320794
Status : Answered
Chosen Option : 4

Q.94 In a falling head test, the initial head level is 100 cm and the head level after 100 seconds is 10 cm. The area of cross-section of stand-pipe is 10 cm^2 , and the area of cross-section of soil sample is 100 cm^2 . Find the permeability of soil sample if the length of sample is 20 cm.

- Ans
- ☐ 1. 0.023 cm/s
 - ☐ 2. 2.3 cm/s
 - ☒ 3. 0.046 cm/s
 - ☐ 4. 4.6 cm/s

Question ID : 630680504539
Option 1 ID : 6306801971718
Option 2 ID : 6306801971720
Option 3 ID : 6306801971717
Option 4 ID : 6306801971719
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.95 What is the by-product that is formed by smelting Pig iron at 1500°C ?

- Ans
- ☐ 1. Silica fume
 - ☐ 2. Surkhi
 - ☒ 3. Blast furnace slag
 - ☐ 4. Fly ash

Question ID : 630680509705
Option 1 ID : 6306801992025
Option 2 ID : 6306801992028
Option 3 ID : 6306801992026
Option 4 ID : 6306801992027
Status : Answered
Chosen Option : 4

Q.96 which of the following IS sieve size is used, to check the fineness of cement by sieve test?

- Ans
- ☐ 1. $37.5 \mu\text{m}$
 - ☐ 2. $15 \mu\text{m}$
 - ☐ 3. $20 \mu\text{m}$
 - ☒ 4. $90 \mu\text{m}$

Question ID : 630680205207
Option 1 ID : 630680795689
Option 2 ID : 630680795687
Option 3 ID : 630680795688
Option 4 ID : 630680795690
Status : Answered
Chosen Option : 4

Q.97 Timber can be treated to make it fire-resistant by which of the following processes?

- Ans ☐ 1. Seasoning process
☐ 2. Applying creosote oil into timber
☐ 3. Coating with tar paint
☒ 4. Soaking it in ammonium sulphate

Question ID : 630680504079
Option 1 ID : 6306801969879
Option 2 ID : 6306801969880
Option 3 ID : 6306801969878
Option 4 ID : 6306801969877
Status : Answered
Chosen Option : 4

Q.98 Which of the following laws states that the compressive strength of hardened concrete is inversely proportional to the water-cement ratio, when the concrete mix is of workable consistency?

- Ans ☐ 1. Archimede's Law
☒ 2. Abram's Law
☐ 3. Coulomb's Law
☐ 4. Avogadro's Law

Question ID : 630680160619
Option 1 ID : 630680621849
Option 2 ID : 630680621848
Option 3 ID : 630680621851
Option 4 ID : 630680621850
Status : Answered
Chosen Option : 2

Q.99 A sample of soil failed in a triaxial test under a deviator stress of 200 kN/m^2 when the confining pressure was 100 kN/m^2 . For the sample, if the confining pressure had been 200 kN/m^2 , what would have been the deviator stress at failure? Assume $c = 0$.

- Ans ☐ 1. 600 kN/m^2
☒ 2. 400 kN/m^2
☐ 3. 500 kN/m^2
☐ 4. 100 kN/m^2

Question ID : 630680504513
Option 1 ID : 6306801971613
Option 2 ID : 6306801971614
Option 3 ID : 6306801971616
Option 4 ID : 6306801971615
Status : Answered
Chosen Option : 2

Q.100 Compaction Test 1- Weight of hammer = 10 kg, Height of fall = 500 mm, Number of layers = 3, Number of blows per layer = 25.

Compaction Test 2- Weight of hammer = 5 kg, Height of fall = 250 mm, Number of layers = 6, Number of blows per layer = 25.

The ratio of compactive energy of compaction test 1 to that of compaction test 2 is:

Ans  1. 8

 2. 2

 3. 4

 4. 0.5

Question ID : **630680504544**

Option 1 ID : **6306801971739**

Option 2 ID : **6306801971737**

Option 3 ID : **6306801971738**

Option 4 ID : **6306801971740**

Status : **Answered**

Chosen Option : **3**