Junior Engineer Civil Mechanical and Electrical Examination 2024 Paper I

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

Section: General Intelligence and Reasoning

Q.1 Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

Pressure : Pascal
s 1. Work : Joule

X 2. Momentum : Newton

X 3. Force : Watt

X 4. Electric Current : Kelvin

Question ID: 630680565341 Option 1 ID: 6306802210339 Option 2 ID: 6306802210340 Option 3 ID: 6306802210338 Option 4 ID: 6306802210341

Status: Answered

Chosen Option: 3

- Q.2 Select the correct option that indicates the arrangement of the following words in a logical and meaningful order (in terms of food chain).
 - 1. Grass
 - 2. Grasshopper
 - 3. Frog
 - 4. Snake
 - 5. Eagle

X 2. 2, 3, 4, 5, 1

X 3. 3, 4, 5, 2, 1

X 4. 2, 4, 3, 1, 5

Question ID: 630680395048

Option 1 ID: 6306801540460

Option 2 ID : **6306801540461**

Option 3 ID: 6306801540462

Option 4 ID: 6306801540463

Status: Answered

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

X 1. LNP Ans

X 2. BDF

X 4. IKM

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

Status: Answered

Chosen Option: 3

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

X 1. gh Ans

X 2. yo

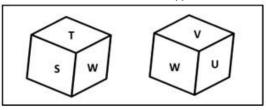
X 3. ab

4. km

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

Chosen Option: 4

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



Ans X 1. V

X 2. T

√ 3. W

X 4. S

Question ID: 630680524641

Option 1 ID: 6306802050666

Option 2 ID: 6306802050663

Option 3 ID: 6306802050665

Option 4 ID: 6306802050664

Status: Answered

Q.6 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

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

(6, 18, 123)
(17, 9, 168)

Ans X 1. (18, 5, 100)

2. (14, 8, 127)

X 3. (21, 7, 147)

X 4. (20, 6, 94)

Question ID: 630680378065
Option 1 ID: 6306801473321
Option 2 ID: 6306801473320
Option 3 ID: 6306801473319
Option 4 ID: 6306801473322
Status: Answered

Chosen Option: 3

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

Ans X 1. 3

X 2.8

X 3.4

4. 1

Question ID: 630680376550 Option 1 ID: 6306801467268 Option 2 ID: 6306801467270 Option 3 ID: 6306801467269 Option 4 ID: 6306801467267 Status: Answered

Chosen Option : 4

Q.8 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

LFC, IDZ, FBW, CZT, ZXQ, ?

Ans X 1. UWM

2. WVN

X 3. XZR

X 4. XYP

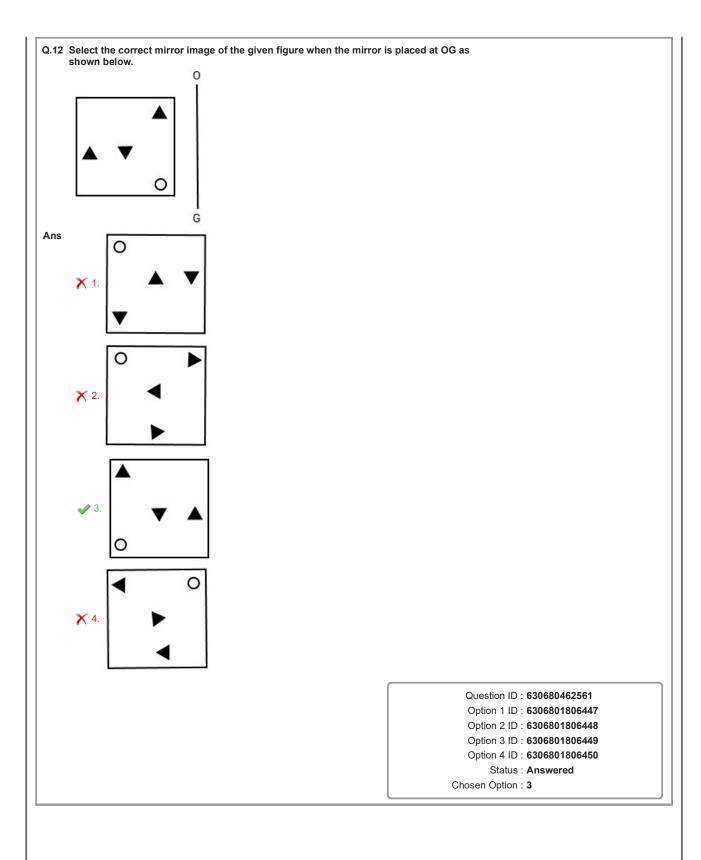
Question ID: 630680379362

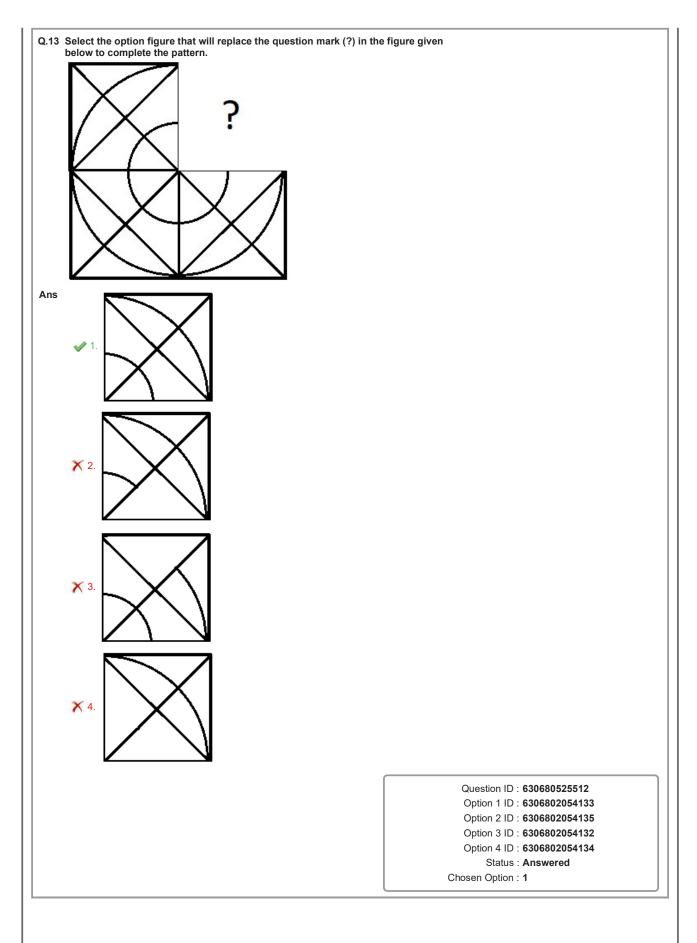
Option 1 ID: 6306801478494 Option 2 ID: 6306801478491

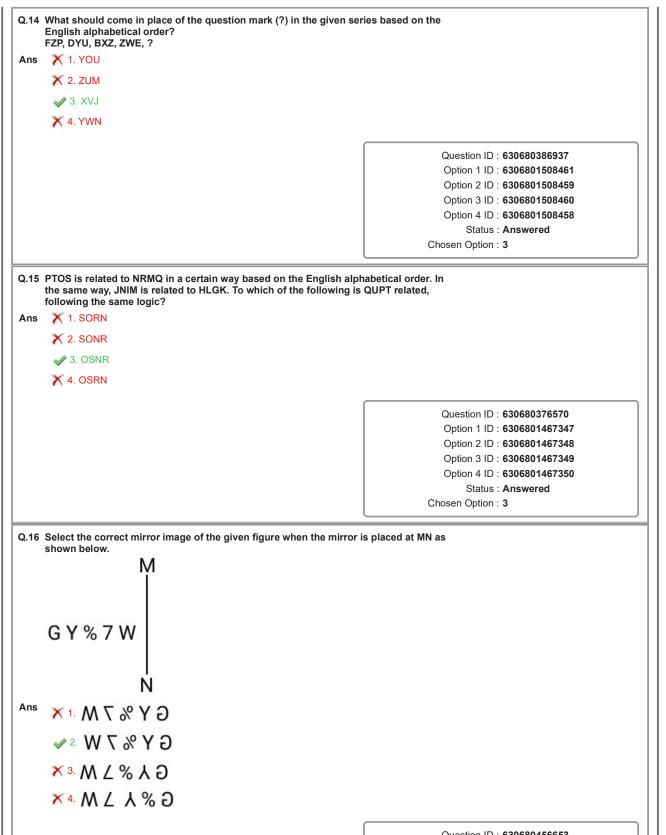
Option 3 ID : **6306801478493** Option 4 ID : **6306801478492**

Status : Answered

Q.9 Seven friends S, Q, K, P, E, C and N have different ages. S is older than N but younger than E. K is older than P. Q is younger than E. C is younger than K. N is older than P. C is older than P. K is younger than Q. Which among them is the oldest? Ans X 2. K X 3. Q X 4. N Question ID: 630680519093 Option 1 ID: 6306802028834 Option 2 ID: 6306802028832 Option 3 ID: 6306802028833 Option 4 ID: 6306802028835 Status: Answered Chosen Option: 1 Q.10 What will come in place of the question mark (?) in the following equation if '+' and '-' are interchanged and 'x' and '÷' are interchanged? $42 \times 6 + 5 \div 8 - 34 = ?$ Ans X 1.4 X 2.5 X 3.3 **4**. 1 Question ID: 630680376972 Option 1 ID: 6306801468953 Option 2 ID: 6306801468952 Option 3 ID: 6306801468951 Option 4 ID: 6306801468954 Status: Answered Chosen Option: 4 Q.11 If'+' means 'subtraction', '-' means 'division', '÷' means 'multiplication' and'x' means 'addition', then what will come in place of the question mark (?) in the following equation? $30 - 5 \times 2960 + 74 \div 4 = ?$ Ans X 1. 2671 **2**. 2670 X 3. 2673 X 4. 2674 Question ID: 630680549694 Option 1 ID: 6306802149208 Option 2 ID: 6306802149209 Option 3 ID: 6306802149210 Option 4 ID: 6306802149211 Status: Answered Chosen Option: 2







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

Q.17 What should come in place of the question mark (?) in the given series based on the English alphabetical order PRT, LNP, HJL, DFH, ? 🥒 1. ZBD Ans X 2. YBD X 3. ZAD X 4. YAD Question ID: 630680376903 Option 1 ID: 6306801468676 Option 2 ID: 6306801468678 Option 3 ID: 6306801468675 Option 4 ID: 6306801468677 Status: Answered Chosen Option: 1 Q.18 Select the set in which the numbers are related in the same way as are the numbers of the following sets. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.) (16, 9, 14) (33, 11, 44) Ans X 1. (22, 6, 30) 2. (18, 7, 22) **X** 3. (17, 4, 22) X 4. (41, 23, 25) Question ID: 630680376815 Option 1 ID: 6306801468324 Option 2 ID: 6306801468323 Option 3 ID: 6306801468326 Option 4 ID: 6306801468325 Status: Answered Chosen Option: 2 Q.19 What will come in place of the question mark (?) in the following equation if '+' and '-' are interchanged and 'x' and '÷' are interchanged? $55 \times 5 - 3 \div 6 + 12 = ?$ Ans X 1. 21 X 2. 15 **3**. 17 X 4. 13 Question ID: 630680376797 Option 1 ID: 6306801468254 Option 2 ID: 6306801468252 Option 3 ID: 6306801468253 Option 4 ID: 6306801468251 Status: Answered Chosen Option: 3

Q.20 Dilip starts from point A and drives 6 km towards the North. He then takes a right turn and drives 2 km. He then takes a left turn and drives 3 km. He then takes a left turn and drives 7 km. He takes a final left turn and drives 9 km to reach point B. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified) Ans 1. 5 km East X 2. 3 km East X 3. 5 km West X 4. 6 km West Question ID: 630680376854 Option 1 ID: 6306801468481 Option 2 ID: 6306801468479 Option 3 ID: 6306801468482 Option 4 ID: 6306801468480 Status: Answered Chosen Option: 1 Q.21 The position(s) of how many letters will remain unchanged if each of the letters in the word PLANKED is arranged in the English alphabetical order? X 1. Three 2. Zero X 3. Two X 4. One Question ID: 630680396642 Option 1 ID: 6306801546660 Option 2 ID: 6306801546661 Option 3 ID: 6306801546662 Option 4 ID: 6306801546663 Status: Answered Chosen Option: 2 Q.22 P, Q, R, S, T, U and V are sitting around a circular table facing the centre (not necessarily in the same order). P is sitting to the immediate left of V. R is sitting to the immediate right of T. U is sitting to the immediate left of P and immediate right of S. Q is sitting to the immediate left of S. T is sitting to the immediate right of V. Who is sitting to the immediate left of Q? X 1. P √ 2. R X 3. V X 4. U Question ID: 630680377011 Option 1 ID: 6306801469108 Option 2 ID: 6306801469109

> Option 3 ID : **6306801469110** Option 4 ID : **6306801469107** Status : **Answered**

Q.23 Select the option in which the numbers share the same relationship as that shared by the given number triads. 9-5-1 14-10-6 (NOTE: Operations should be performed on the whole number, without breaking down

the numbers into its constituent digits. E.g. 13- Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed.)

X 1. 21-16-14

X 2. 25-21-19

X 3. 30-28-26

4. 20-16-12

Question ID: 630680387175 Option 1 ID: 6306801509395 Option 2 ID: 6306801509396 Option 3 ID: 6306801509397 Option 4 ID: 6306801509394 Status: Answered

Chosen Option : 4

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

Ans X 1. YZ 23

X 2. LI 23

X 4. MP 21

Question ID: 630680376956 Option 1 ID: 6306801468887 Option 2 ID: 6306801468890 Option 3 ID: 6306801468888 Option 4 ID: 6306801468889 Status: Answered

Chosen Option: 3

Q.25 In a certain code language,

A @ B means 'A is the mother of B'

A - B means 'A is the brother of B' A % B means 'A is the son of B'

A ÷ B means 'A is the father of B'

Based on the above, how is E related to M if 'E % F \div G – H @ M'?

X 1. Mother's father Ans

2. Mother's brother

X 3. Brother

X 4. Father

Question ID: 630680376958 Option 1 ID: 6306801468896 Option 2 ID: 6306801468897 Option 3 ID: 6306801468898

Option 4 ID: 6306801468895

Status: Answered

Question ID: 630680379934

Option 1 ID: 6306801480771

Option 2 ID: 6306801480774

Option 3 ID: 6306801480772

Option 4 ID: 6306801480773

Status: Answered

Chosen Option: 3

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

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

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

2. 4, 1, 3, 2, 5

X 3. 4, 5, 2, 3, 1

X 4. 4, 3, 5, 1, 2

Question ID: 630680565837

Option 1 ID: 6306802212300

Option 2 ID: 6306802212301

Option 3 ID: 6306802212303

Option 4 ID: 6306802212302

Status: Answered

Chosen Option : 2

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

Ans X 1. CD 10

X 2. AC 25

X 3. CE 25

√ 4. CD 25

Question ID : **630680377765** Option 1 ID : **6306801472119**

Option 2 ID : **6306801472122** Option 3 ID : **6306801472121** Option 4 ID : **6306801472120**

Status: Answered

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

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

Conclusion 1: Some laptops are phones.

Conclusion 2: No phone is a laptop.

Ans X 1. Both conclusion (1) and conclusion (2) follow

X 2. Only conclusion (2) follows

X 3. Only conclusion (1) follows

4. None of the conclusions follow

Question ID: 630680381549 Option 1 ID: 6306801487129 Option 2 ID: 6306801487128 Option 3 ID: 6306801487127 Option 4 ID: 6306801487130

Status: Answered

Chosen Option: 4

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

Ans X 1.48

X 2. 56

X 3. 52

4. 41

Question ID: 630680390912 Option 1 ID: 6306801524065 Option 2 ID: 6306801524064 Option 3 ID: 6306801524063 Option 4 ID: 6306801524062

Status: Answered Chosen Option: 4

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

Ans X 1.8

X 2.6

X 3. 11

4.9

Question ID: 630680380559

Option 1 ID: 6306801483226

Option 2 ID: 6306801483223

Option 3 ID: 6306801483224

Option 4 ID: 6306801483225

Status: Answered

Q.32 In a certain code language,

'A + B' means 'A is the husband of B',

'A - B' means 'A is the wife of B',

'A × B' means 'A is the father of B', and

'A ÷ B' means 'A is the sister of B'.

How is P related to T if 'P - Q × R ÷ S + T'?

Ans X 1. Father's mother

2. Husband's mother

X 3. Brother's wife

X 4. Son's wife

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

Chosen Option: 2

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

CGPY, KOXG, SWFO, AENW, ?

Ans 🗳 1. IMVE

× 2. IVEB

X 3. IMNJ

X 4. IKJU

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

Chosen Option : 1

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

Ans X 1. NRMQ

2. MRNQ

X 3. MRNP

X 4. NRQM

Question ID: 630680379504 Option 1 ID: 6306801479060 Option 2 ID: 6306801479062

Option 3 ID : **6306801479061** Option 4 ID : **6306801479059**

Status : Answered

Q.35 Select the triad in which the numbers are related to each other in the same way as are the numbers of the given triads.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.) (218, 121, 97)

(254, 138, 116)

Ans X 1. (267, 118, 129)

X 2. (312, 194, 128)

X 3. (296, 147, 156)

4. (325, 184, 141)

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

Chosen Option: 4

Q.36 Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which conclusion/s logically follow/s from the given statements.

Statements: All plants are rocks. All rocks are lakes. No lake is a kite.

Conclusions:

(I) No rock is a kite.

(II) At least some lakes are plants.

Ans X 1. Only conclusion (II) follows.

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

3. Neither conclusion (I) nor (II) follows.

X 4. Only conclusion (I) follows.

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

Chosen Option : 4

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

NTZ, LRX, JPV, HNT, ?

Ans X 1. FMR

X 2. GLR

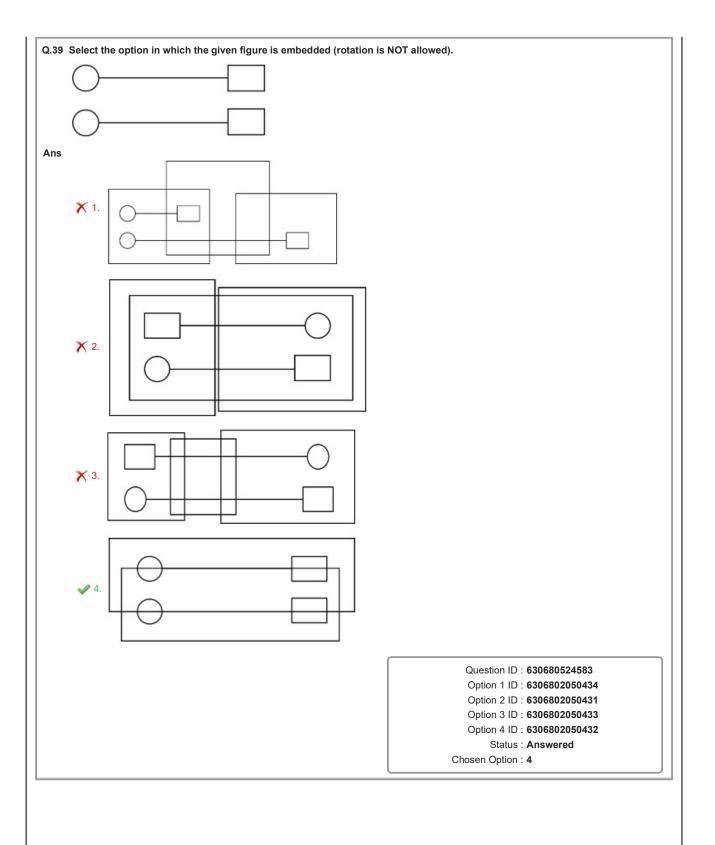
X 3. GLN

Question ID : 630680376691

Option 1 ID: 6306801467829 Option 2 ID: 6306801467828 Option 3 ID: 6306801467830 Option 4 ID: 6306801467827

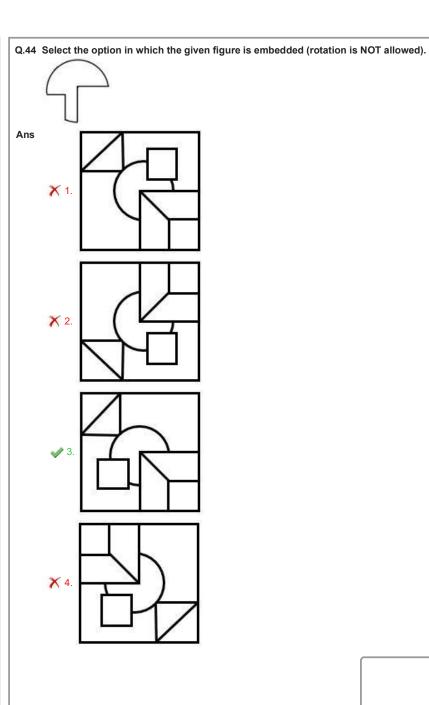
Status : Answered

Q.38 'TOUR' is related to 'VQWT' in a certain way based on the English alphabetical order. In the same way, 'QLRO' is related to 'SNTQ'. To which of the following is 'MHNK' related following the same logic? Ans X 1. OJMP X 2. JOPM X 3. JOMP √ 4. OJPM Question ID: 630680387671 Option 1 ID: 6306801511334 Option 2 ID: 6306801511337 Option 3 ID : 6306801511336 Option 4 ID: 6306801511335 Status: Answered Chosen Option: 4



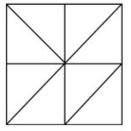
Q.40 What should come in place of the question mark (?) in the given series? 44, 48, 52, 56, 60, 64, ? **1.68** Ans X 2.72 X 3.70 X 4. 66 Question ID: 630680380563 Option 1 ID: 6306801483240 Option 2 ID: 6306801483241 Option 3 ID: 6306801483242 Option 4 ID: 6306801483239 Status: Answered Chosen Option: 1 Q.41 A, B, C, D, P, Q, and R are sitting around a circular table, facing the centre (not necessarily in the same order). Only three people sit between D and R when counted from the right of R.B is an immediate neighbour of both R and Q.P sits second to the left of D.C is not an immediate neighbour of D. Who is sitting third to the right of R? Ans X 1. C 🥒 2. A X 3. P X 4. Q Question ID: 630680376654 Option 1 ID: 6306801467682 Option 2 ID: 6306801467679 Option 3 ID: 6306801467681 Option 4 ID: 6306801467680 Status: Answered Chosen Option: 2 Q.42 123 is related to 223 following a certain logic. Following the same logic, 465 is related to 565. To which of the following is 786 related, following the same logic? (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.) Ans X 1. 686 X 2. 786 **3.886** X 4. 986 Question ID: 630680397504 Option 1 ID: 6306801549934 Option 2 ID: 6306801549935 Option 3 ID: 6306801549936 Option 4 ID: 6306801549937 Status: Answered Chosen Option: 3

Q.43 Pillar P is to the west of Pillar Q. Pillar R is to the east of Pillar Q. Pillar T is to the north of Pillar R. Pillar U is to the south of Pillar R. What is the position of Pillar Q with respect to Pillar U? Ans X 1. South-West X 2. South X 3. North 4. North-West Question ID: 630680382479 Option 1 ID: 6306801490834 Option 2 ID: 6306801490833 Option 3 ID: 6306801490831 Option 4 ID: 6306801490832 Status: Answered Chosen Option: 4



Question ID: 630680524477
Option 1 ID: 6306802050008
Option 2 ID: 6306802050007
Option 3 ID: 6306802050009
Option 4 ID: 6306802050010
Status: Answered

How many triangles are there in the given figure?



Ans X 1. 11

X 2. 14

3. 12

X 4. 13

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

Status: Answered Chosen Option: 3

Q.46 152 is related to 19 following a certain logic. Following the same logic, 232 is related to

29. To which of the following is 392 related, following the same logic? (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans

1. 49

X 2.47

X 3.46

X 4. 48

Question ID: 630680396907

Option 1 ID: 6306801547699 Option 2 ID: 6306801547697 Option 3 ID: 6306801547696

Option 4 ID: 6306801547698

Status: Answered Chosen Option : 1

Q.47 What will come in place of the question mark (?) in the following equation if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

 $4 \div 5 + 21 \times 3 - 2 = ?$

Ans **1.** 15

X 2. 17

X 3. 14

X 4. 12

Question ID: 630680377835

Option 1 ID: 6306801472401

Option 2 ID: 6306801472402

Option 3 ID: 6306801472400 Option 4 ID: 6306801472399

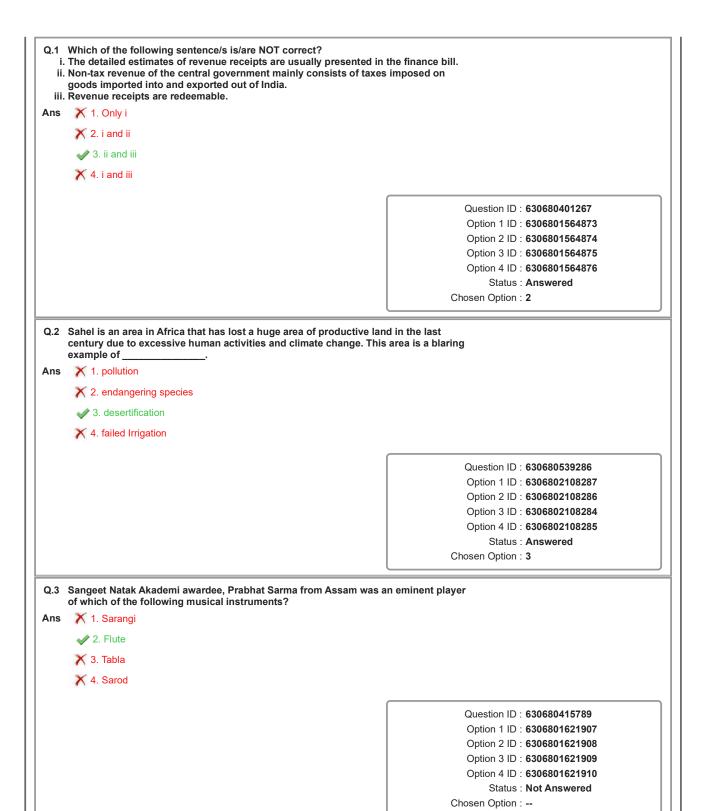
Status: Answered

Q.48 In a certain code language, 'BOIL' is coded as '6428' and 'LEAD' is coded as '9671'. What is the code for 'L' in that language? X 1.8 Ans **2**. 6 **X** 3. 9 **X** 4. 1 Question ID: 630680376704 Option 1 ID: 6306801467880 Option 2 ID: 6306801467879 Option 3 ID: 6306801467881 Option 4 ID: 6306801467882 Status: Answered Chosen Option: 3 Q.49 The position(s) of how many letters will remain unchanged if each of the letters in the word SMOTHER is arranged in the English alphabetical order? Ans X 1. Three X 2. Two 3. Zero X 4. One Question ID: 630680396638 Option 1 ID: 6306801546648 Option 2 ID: 6306801546649 Option 3 ID: 6306801546650 Option 4 ID: 6306801546651 Status: Answered Chosen Option: 3 Q.50 What should come in place of the question mark (?) in the following series? 11, 17, 29, 47, 71, ? Ans X 1. 100 X 2.99 **3**. 101 **X** 4. 102 Question ID: 630680386611 Option 1 ID: 6306801507155 Option 2 ID: 6306801507154 Option 3 ID: 6306801507156 Option 4 ID: 6306801507157

Status: Answered

Chosen Option: 3

Section : General Awareness



Ans		cillates 100 times in 5 seconds?
	X 1. 200 Hz	
	X 2. 100 Hz	
	X 3. 50 Hz	
	✓ 4. 20 Hz	
	V25.12	
		Question ID : 630680539097
		Option 1 ID : 6306802107555
		Option 2 ID : 6306802107552
		Option 3 ID : 6306802107553
		Option 4 ID : 6306802107554 Status : Answered
		Chosen Option: 4
0.5	In the context of internet access, Wi-Fi stands for	
		·
Ans	X 1. Wired Fidelity	
	✓ 2. Wireless Fidelity	
	X 3. Wideband Fibre	
	X 4. Web Interface	
		Question ID : 630680572059
		Option 1 ID : 6306802237100
		Option 2 ID : 6306802237101 Option 3 ID : 6306802237102
		Option 4 ID : 6306802237103
		Status : Answered
		Chosen Option: 2
Ans	delayed till at least 1. January 2024 2. October 2024 3. March 2024 4. July 2024	
	4. July 2024	
		Question ID : 630680513813
		Option 1 ID : 6306802007878
		Option 1 ID : 6306802007878 Option 2 ID : 6306802007880
		Option 1 ID : 6306802007878 Option 2 ID : 6306802007880 Option 3 ID : 6306802007877
		Option 1 ID : 6306802007878 Option 2 ID : 6306802007880
		Option 1 ID : 6306802007878 Option 2 ID : 6306802007880 Option 3 ID : 6306802007877 Option 4 ID : 6306802007879
Q.7	Which of the following fundamental rights has been am	Option 1 ID : 6306802007878 Option 2 ID : 6306802007880 Option 3 ID : 6306802007877 Option 4 ID : 6306802007879 Status : Answered Chosen Option : 2 ended as a constitutional right
	in the form of Article 300A in the new Chapter IV Part XI	Option 1 ID : 6306802007878 Option 2 ID : 6306802007880 Option 3 ID : 6306802007877 Option 4 ID : 6306802007879 Status : Answered Chosen Option : 2 ended as a constitutional right
	in the form of Article 300A in the new Chapter IV Part XI 1. Cultural and Educational Rights	Option 1 ID : 6306802007878 Option 2 ID : 6306802007880 Option 3 ID : 6306802007877 Option 4 ID : 6306802007879 Status : Answered Chosen Option : 2 ended as a constitutional right
	in the form of Article 300A in the new Chapter IV Part XI 1. Cultural and Educational Rights 2. Right to Freedom of Religion	Option 1 ID : 6306802007878 Option 2 ID : 6306802007880 Option 3 ID : 6306802007877 Option 4 ID : 6306802007879 Status : Answered Chosen Option : 2 ended as a constitutional right
	in the form of Article 300A in the new Chapter IV Part XI 1. Cultural and Educational Rights 2. Right to Freedom of Religion 3. Right against Exploitation	Option 1 ID : 6306802007878 Option 2 ID : 6306802007880 Option 3 ID : 6306802007877 Option 4 ID : 6306802007879 Status : Answered Chosen Option : 2 ended as a constitutional right
	in the form of Article 300A in the new Chapter IV Part XI 1. Cultural and Educational Rights 2. Right to Freedom of Religion	Option 1 ID : 6306802007878 Option 2 ID : 6306802007880 Option 3 ID : 6306802007877 Option 4 ID : 6306802007879 Status : Answered Chosen Option : 2 ended as a constitutional right
	in the form of Article 300A in the new Chapter IV Part XI 1. Cultural and Educational Rights 2. Right to Freedom of Religion 3. Right against Exploitation	Option 1 ID : 6306802007878 Option 2 ID : 6306802007880 Option 3 ID : 6306802007877 Option 4 ID : 6306802007879 Status : Answered Chosen Option : 2 ended as a constitutional right
	in the form of Article 300A in the new Chapter IV Part XI 1. Cultural and Educational Rights 2. Right to Freedom of Religion 3. Right against Exploitation	Option 1 ID : 6306802007878 Option 2 ID : 6306802007880 Option 3 ID : 6306802007877 Option 4 ID : 6306802007879 Status : Answered Chosen Option : 2 ended as a constitutional right I of the Indian Constitution? Question ID : 630680493493 Option 1 ID : 6306801927711
Q.7 Ans	in the form of Article 300A in the new Chapter IV Part XI 1. Cultural and Educational Rights 2. Right to Freedom of Religion 3. Right against Exploitation	Option 1 ID : 6306802007878 Option 2 ID : 6306802007880 Option 3 ID : 6306802007877 Option 4 ID : 6306802007879 Status : Answered Chosen Option : 2 ended as a constitutional right I of the Indian Constitution?

Status: Answered

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

Ans X 1. Diesel engine

X 2. Fluorescent electric lamp

3. Air pump

X 4. Barometer

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

Status: Answered

Chosen Option : 3

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

Ans X 1. The bill promises 125 days of work a year for all families in the state.

X 2. The bill guarantees a minimum pension of ₹1,000 per month to the elderly, specially abled, widows and single women.

X 3. The minimum pension under the bill will increase by 15% every year.

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

Chosen Option: 3

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

Ans X 1. Mukhya Mantri Shramik Suraksha Yojana

X 2. Arunachal Shramik Vikas Yojana

X 3. Labor Welfare Samriddhi Yojana

4. Mukhya Mantri Shramik Kalyan Yojana

Question ID: 630680469539 Option 1 ID: 6306801833923 Option 2 ID: 6306801833924 Option 3 ID: 6306801833925 Option 4 ID: 6306801833926

Status: Not Answered

Q.11 What is a small, shallow freshwater body with calm water called? Ans X 1. Lagoon

2. Pond

X 3. Lake

X 4. River

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

Chosen Option: 2

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

Ans X 1. Abhilipsa Mohanty

X 2. Poonam Veeram

X 3. Deepa Shah

4. Manisha Padhi

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

Chosen Option : --

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

Ans X 1. To build muscle

X 2. To enhance vision

X 3. To regulate metabolism

4. To provide energy

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

Chosen Option : 4

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

Ans 🧳 1. lipase

X 2. zymase

X 3. trypsin

X 4. invertase

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

Status : Answered

Q.15 Mahatma Gandhi gave the slogan of 'Do or Die' during the _ X 1. Non-Cooperation Movement 2. Quit India Movement X 3. Kheda Satyagraha X 4. Champaran Satyagraha Question ID: 630680572371 Option 1 ID: 6306802238324 Option 2 ID: 6306802238325 Option 3 ID: 6306802238326 Option 4 ID: 6306802238327 Status: Answered Chosen Option: 2 Q.16 What is the process by which one organism captures and consumes another organism called? Ans X 1. Mutualism X 2. Competition 3. Predation X 4. Parasitism Question ID: 630680412056 Option 1 ID: 6306801607059 Option 2 ID: 6306801607060 Option 3 ID: 6306801607061 Option 4 ID: 6306801607062 Status: Answered Chosen Option: 3 Q.17 Which months are known for the season of retreating monsoon in India? 1. October and November Ans X 2. March and April X 3. May and June X 4. January and February Question ID: 630680511027 Option 1 ID: 6306801997240 Option 2 ID: 6306801997241 Option 3 ID: 6306801997238 Option 4 ID: 6306801997239 Status: Answered Chosen Option: 3 Q.18 Under the Regulating Act of 1773, the Supreme Court was established by British Emperor in which of the following cities in British India? X 1. Bombay Ans X 2. Madras 3. Calcutta X 4. Delhi Question ID: 630680511585 Option 1 ID: 6306801999464 Option 2 ID: 6306801999465 Option 3 ID: 6306801999463 Option 4 ID: 6306801999462

Status: Answered

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

Ans 🧳 1. Indian Parliamentary system

X 2. Welfare State system

X 3. Federal system

X 4. Strong Centre system

Question ID: 630680426502
Option 1 ID: 6306801664094
Option 2 ID: 6306801664095
Option 3 ID: 6306801664096
Option 4 ID: 6306801664097
Status: Not Answered

Chosen Option: --

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

Ans 🗳 1. Thiamin

X 2. Riboflavin

X 3. Niacin

X 4. Pantothenic acid

Question ID: 630680404157 Option 1 ID: 6306801576114 Option 2 ID: 6306801576115 Option 3 ID: 6306801576116 Option 4 ID: 6306801576117

Status : **Answered** Chosen Option : **1**

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

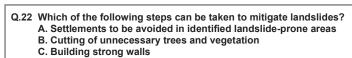
Ans 🗳 1. 1859 C.E.

X 2. 1855 C.E.

X 3. 1852 C.E.

X 4. 1857 C.E.

Question ID: 630680511557 Option 1 ID: 6306801999353 Option 2 ID: 6306801999351 Option 3 ID: 6306801999350 Option 4 ID: 6306801999352 Status: Not Answered



D. Not constructing drainage systems to avoid constructions

1. A and C

X 2. A and B

X 3. Only B and D

X 4. B, C and D

Question ID: 630680546832 Option 1 ID: 6306802137895 Option 2 ID: 6306802137897 Option 3 ID: 6306802137896 Option 4 ID: 6306802137898 Status: Answered

Chosen Option: 1

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

Ans X 1. Tamil Nadu

X 2. Kerala

X 3. Andhra Pradesh

4. Karnataka

Question ID: 630680451218 Option 1 ID: 6306801761971 Option 2 ID: 6306801761970 Option 3 ID: 6306801761972 Option 4 ID: 6306801761973 Status: Not Answered

Chosen Option: --

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

Ans X 1.4

2. 16

X 3. 10

X 4. 6

Question ID: 630680401911 Option 1 ID: 6306801567390 Option 2 ID: 6306801567391 Option 3 ID: 6306801567392 Option 4 ID: 6306801567393 Status: Answered

Q.25 The basophilic nucleoprotein granules that are scattered within the cytoplasm of a nerve cell and helps in the protein synthesis are known as: Ans 1. Nissl bodies X 2. Subunit of Parson X 3. Oxisome X 4. Golgi bodies Question ID: 630680399223 Option 1 ID: 6306801556839 Option 2 ID: 6306801556840 Option 3 ID: 6306801556841 Option 4 ID: 6306801556842 Status: Not Answered Chosen Option: --Q.26 How many items did the Swaran Singh Committee recommend to be incorporated in the Constitution of India as duties of the Indian citizen? **1**.8 Ans X 2. 12 X 3.6 X 4. 10 Question ID: 630680804336 Option 1 ID: 6306803151076 Option 2 ID: 6306803151078 Option 3 ID: 6306803151075 Option 4 ID: 6306803151077 Status: Not Answered Chosen Option: --Q.27 Which disease is characterised by the body's inability to regulate blood sugar levels? X 1. Hypertension Ans X 2. Asthma X 3. Arthritis 4. Diabetes Question ID: 630680701422 Option 1 ID: 6306802747627 Option 2 ID: 6306802747626 Option 3 ID: 6306802747625 Option 4 ID: 6306802747628 Status: Answered Chosen Option: 4 Q.28 Who was re-appointed as the Solicitor General of India for a term of three years starting from 1 July 2023? Ans 💢 1. Suryaprakash V Raju 2. Tushar Mehta X 3. Chetan Sharma X 4. Vikramjit Banerjee Question ID: 630680412698 Option 1 ID: 6306801609615 Option 2 ID: 6306801609616 Option 3 ID: 6306801609617 Option 4 ID: 6306801609618

Status: Answered

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

Ans X 1. Animal Protection

2. Project Tiger

X 3. Predator Project

¥ 4. Wildlife Conservation Project

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

Chosen Option: 2

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

1. FIFA World Cup Football 2022 – Japan

X 2. Olympics 2020 – Tokyo

X 3. FIH Men Hockey World Cup 2023 - India

X 4. Commonwealth Games 2022 - England

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

Chosen Option: 3

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

Ans X 1. 1980 Moscow

2. 1984 Los Angeles

X 3. 1948 London

X 4. 1956 Melbourne

Question ID: 630680436001 Option 1 ID: 6306801701953 Option 2 ID: 6306801701954 Option 3 ID: 6306801701955 Option 4 ID: 6306801701956

Status: Not Answered

Chosen Option: --

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

Ans X 1. 32°C

X 2. 100°C

X 3. 98°C

√ 4. 0°C

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

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

Ans X 1. District Judge

2. Senior Advocate

X 3. Judicial Magistrate

X 4. Additional Senior Civil Judge

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

Chosen Option: 3

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

Ans

✓ 1. Review tab

X 2. Home tab

X 3. Insert tab

X 4. Format tab

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

Chosen Option : 1

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

Ans X 1. 8.3%

X 2. 24.9%

3. 16.8%

X 4. 30.2%

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

Status : Answered

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

Ans 💢 1. Emulsification

X 2. Oxidation reaction

3. Maillard reaction

X 4. Caramelisation

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

Chosen Option: 3

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

Ans X 1. Dal

X 2. Bhimtal

3. Lonar

X 4. Pushkar

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

Chosen Option: 3

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

Ans 💜 1. Prof. Ramesh Chand

X 2. Prof. Suresh Pal

X 3. Prof. Vijay P Sharma

X 4. Prof. Gopal Naik

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

Chosen Option: 1

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

Ans 1. Increase public spending

X 2. Reduce public spending

X 3. Increase taxes significantly

X 4. Implement strict trade barriers

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

Q.40 In dravidian style of temples the main temple tower is known as ___ Ans X 1. mandapa X 2. gopuram 3. vimana X 4. shikhara Question ID: 630680511632 Option 1 ID: 6306801999653 Option 2 ID: 6306801999651 Option 3 ID: 6306801999650 Option 4 ID: 6306801999652 Status: Answered Chosen Option: 4 Q.41 Match the following. Propene Unsaturated 3 carbon chains with double bond Propyne Unsaturated 3 carbon chains with triple bond Saturated 3 carbon bonds Propane **Ans** X 1. A-3, B-1, C-2 √ 2. A-1, B-2, C-3 X 3. A-3, B-2, C-1 X 4. A-2, B-1, C-3 Question ID: 630680401768 Option 1 ID: 6306801566838 Option 2 ID: 6306801566839 Option 3 ID: 6306801566840 Option 4 ID: 6306801566841 Status: Answered Chosen Option : 4 Q.42 The Indian Copper Complex (ICC) is located at Ghatsila in the state of ____ 1. Jharkhand Ans X 2. Rajasthan X 3. Telangana X 4. Maharashtra Question ID: 630680510980 Option 1 ID: 6306801997051 Option 2 ID: 6306801997050 Option 3 ID: 6306801997052 Option 4 ID: 6306801997053 Status: Not Answered Chosen Option: --

Q.43 Mango shower is a term used for ______. Ans \$\sigma 1\$. pre-monsoon showers \$\times 2\$. post-monsoon showers \$\times 3\$. winter showers \$\times 4\$. monsoon showers Question ID: 630680564473 Option 1 ID: 630680220682

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

Chosen Option : 1

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

Ans X 1. Group 5

X 2. Group 16

X 3. Group 10

√ 4. Group 13

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

Chosen Option: 4

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

Ans X 1. Shaggy horn wild ibex

X 2. Bluebull

X 4. Red panda

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

Chosen Option: 3

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

Ans X 1. Nagaland

X 2. Goa

X 3. Tripura

4. Mizoram

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

Q.47 Which of the following sentences is/are true?

i. After independence, about two-thirds of India's population is now (2011 Census) literate.

ii. In India, between 2001 and 2011, male literacy rose faster than female literacy. iii. Female literacy rose by about 10.4 per cent between 2001 and 2011 in India.

Ans X 1. Only i and ii

X 2. Only ii and iii

X 3. Only ii

4. Only i and iii

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

Chosen Option: 3

- Q.48 Which of the following are the functions of the National Commission for Scheduled Castes?
 - 1) Providing Constitutional protection to Scheduled Castes
 - 2) Investigating any case that violates the interests of Scheduled Castes
 - 3) Submitting a report to the Prime Minister related to the protection of Scheduled Castes
 - 4) Presenting to the President, annually and at such other times as the Commission may deem fit, reports upon the working of those safeguards

Ans X 1. Only 1, 3 and 4

X 2. Only 1, 2 and 3

X 4. Only 2, 3 and 4

Question ID: 630680426482 Option 1 ID: 6306801664014 Option 2 ID: 6306801664015 Option 3 ID: 6306801664016 Option 4 ID: 6306801664017

Status: Answered

Chosen Option: 3

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

Ans X 1. 20%

2. 27%

X 3. 30%

X 4. 35%

Question ID: 630680469585

Option 1 ID : **6306801834103** Option 2 ID : **6306801834104**

Option 3 ID : **6306801834105** Option 4 ID : **6306801834106**

Status: Not Answered

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

Ans

X 1. Separation of Powers

2. Directive Principles of State Policy

X 3. Fundamental Rights

X 4. Amendment Method

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

Status: Answered Chosen Option: 2

Section: General Engineering Civil and Structural

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

Ans X 1. there is the simultaneous crushing of concrete and breaking of steel

X 2. there is the simultaneous yielding of both concrete and steel

X 4. there is the simultaneous yielding of concrete and breaking of steel

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

Chosen Option: 3

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

Ans X 1. Tight knot

2. Loose knot

X 3. Dead knot

X 4. Round knot

Question ID: 630680509694 Option 1 ID: 6306801991984 Option 2 ID: 6306801991982 Option 3 ID: 6306801991981 Option 4 ID: 6306801991983

Status: Not Answered

1. Carrying only light axle load X 2. Safety X 3. Smooth running X 4. Achieving maximum speed Question ID: 630680198291 Option 1 ID: 630680769337 Option 2 ID: 630680769338 Option 3 ID: 630680769336 Option 4 ID: 630680769335 Status: Answered Chosen Option : 1 Q.4 A catchment area of 10 km² has recorded a rainfall of 25 mm/h. Assuming a runoff coefficient of 0.3, the peak discharge from the catchment using the rational method is X 1. 18.36 cumec X 2. 26.56 cumec X 3. 24.6 cumec 4. 20.83 cumec Question ID: 630680504304 Option 1 ID: 6306801970779 Option 2 ID: 6306801970780 Option 3 ID: 6306801970778 Option 4 ID: 6306801970777 Status: Not Answered Chosen Option: --Q.5 If 90% of soil particles got retained over 2 mm sieve and 50% of soil particles got retained over 4.75 mm sieve, then the effective diameter of the soil will be: Ans ✓ 1. 2 mm X 2. 4.75 mm X 3. 1.25 mm X 4. 6.75 mm Question ID: 630680504535 Option 1 ID: 6306801971701 Option 2 ID: 6306801971702 Option 3 ID: 6306801971704 Option 4 ID: 6306801971703 Status: Answered Chosen Option: 4

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

Q.6 are popularly known as white ants, though they are in no way related to ants. X 1. Flies Ans X 2. Viruses 3. Termites X 4. Bacteria Question ID: 630680198727 Option 1 ID: 630680770870 Option 2 ID: 630680770869 Option 3 ID: 630680770867 Option 4 ID: 630680770868 Status: Answered Chosen Option: 3 Which of the following is the hazardous waste produced by petroleum refining industries? X 1. Lead ash Ans X 2. Cyanide-containing sludge X 3. Tarry residues Question ID: 630680509485 Option 1 ID: 6306801991211 Option 2 ID: 6306801991212 Option 3 ID: 6306801991210 Option 4 ID: 6306801991209 Status: Answered Chosen Option: 1 Q.8 In the direct shear test conducted on soils, a proving ring is used to ____ √ 1. measure the magnitude of shear load Ans X 2. measure vertical strain X 3. measure horizontal strain X 4. measure horizontal stress Question ID: 630680181902 Option 1 ID: 630680704845 Option 2 ID: 630680704843 Option 3 ID: 630680704842 Option 4 ID: 630680704844 Status: Answered Chosen Option: 1

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

Ans 1. Stability, incompressibility, good drainage

X 2. Large changes in volume under adverse conditions of weather, stability

X 3. Large changes in volume under adverse conditions of weather, compressibility, good drainage

X 4. Ease of compaction, compressibility, stability

Question ID: 630680509459
Option 1 ID: 6306801991108
Option 2 ID: 6306801991106
Option 3 ID: 6306801991105
Option 4 ID: 6306801991107
Status: Answered

Chosen Option: 4

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

Ans X 1. unsteady flow

2. steady flow

X 3. uniform flow

X 4. non-uniform flow

Question ID: 630680506963
Option 1 ID: 6306801981358
Option 2 ID: 6306801981357
Option 3 ID: 6306801981359
Option 4 ID: 6306801981360
Status: Answered

Chosen Option: 3

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

i. Promote road safety

ii. Promote efficient movement of vehicles

iii. Increase design speed

iv. Calculate traffic volume

v. Provide warning for safe movement

Ans X 1. Only i

X 2. i, ii, iii and v

X 3. Both iii and v

4. Only i, ii and v

Question ID : 630680509078 Option 1 ID : 6306801989607 Option 2 ID : 6306801989610 Option 3 ID : 6306801989608 Option 4 ID : 6306801989609 Status : Answered

Q.12 A soil has a liquid limit of 40% and its plasticity index is 10%. The percentage passing through a 4.75 mm sieve is 60% and the percentage passing through a 75 micron sieve is 45%. The soil can be classified as:						
ns	★ 1. GM					
	✓ 2. SM					
	✗ 3. GC					
	X 4. SM-SC					
		Question ID: 630680504507 Option 1 ID: 6306801971589 Option 2 ID: 6306801971591 Option 3 ID: 6306801971590 Option 4 ID: 6306801971592 Status: Answered Chosen Option: 4				
.13	What will be the discharge of a single-acting pump if it has one cylinder of area 0.5 m ² and stroke of length 20 cm and if the pump has 180 rpm of speed?					
ns	× 1. 0.2 m ³ /s					
	✓ 2. 0.3 m ³ /s					
	X 3. 0.1m ³ /s					
	X 4. 0.25m ³ /s					
		Question ID: 630680506945 Option 1 ID: 6306801981285 Option 2 ID: 6306801981286 Option 3 ID: 6306801981288 Option 4 ID: 6306801981287 Status: Answered Chosen Option: 2				
2.14	The biological treatment techniques used can be classified processes and suspended growth processes. Which of the classified under attached growth processes?					
ns	★ 1. Aerated lagoon					
	X 2. Sludge digestion system					
	X 3. Activated sludge process					
		Question ID: 630680191266 Option 1 ID: 630680741705 Option 2 ID: 630680741706 Option 3 ID: 630680741708 Option 4 ID: 630680741707				

Q.15 In the laboratory determination of California Bearing Ratio (CBR) test on soils as per IS : 2720(Part 16) - 1987, the CBR values are usually reported for penetration values of : X 1. 5.0 mm, 7.5 mm X 2. 3.5 mm, 5.0 mm X 3. 1.5 mm, 2.5 mm 4. 2.5 mm, 5.0 mm Question ID: 630680504579 Option 1 ID: 6306801971880 Option 2 ID: 6306801971879 Option 3 ID: 6306801971877 Option 4 ID: 6306801971878 Status: Answered Chosen Option: 4 Q.16 Plinth area is calculated for the covered area by taking ✓ 1. external dimensions of the building at the floor level X 2. internal dimensions of the building at floor level X 3. both the external and internal dimension of the building at the floor level X 4. centre to centre length at floor level Question ID: 630680504122 Option 1 ID: 6306801970050 Option 2 ID: 6306801970051 Option 3 ID: 6306801970052 Option 4 ID: 6306801970049 Status: Answered Chosen Option: 3 Q.17 The soil has a liquid limit of 50 %. Following the A-line, in the plasticity chart as per IS: 1498 - 1970, the corresponding plastic limit is: Ans **1. 28.1%** X 2. 25% X 3. 21.9% X 4. Insufficient data Question ID: 630680504536 Option 1 ID: 6306801971705 Option 2 ID: 6306801971707 Option 3 ID: 6306801971706 Option 4 ID: 6306801971708 Status: Answered Chosen Option: 4

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

Ans X 1. Oxidation of organic matter occurs in trickling filters under aerobic conditions.

2. Activated sludge is biologically active.

X 4. Secondary treatment methods are broadly divided into filtration and activated sludge process.

Question ID: 630680509501
Option 1 ID: 6306801991275
Option 2 ID: 6306801991276
Option 3 ID: 6306801991274
Option 4 ID: 6306801991273
Status: Answered

Chosen Option: 3

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

I: To promote human health

II: To provide a cleaner environment

III: To break the cycle of diseases

Ans X 1. Scavenging system

X 2. Distribution system

X 3. Drainage system

4. Sanitary system

Question ID : 630680509469
Option 1 ID : 6306801991148
Option 2 ID : 6306801991146
Option 3 ID : 6306801991147
Option 4 ID : 6306801991145
Status : Answered

Chosen Option: 4

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

Ans

1. 10

X 2. 12

X 3. 15

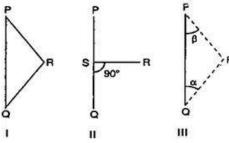
X 4.5

Question ID: 630680503288 Option 1 ID: 6306801966737 Option 2 ID: 6306801966738

Option 3 ID : **6306801966740** Option 4 ID : **6306801966739**

Status : Answered

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



Ans X 1. Only I

X 2. Only III

🥓 3. I, II and III

X 4. Only I and II

Question ID: 630680192171 Option 1 ID: 630680745285 Option 2 ID: 630680745287 Option 3 ID: 630680745288 Option 4 ID: 630680745286

Status: Answered

Chosen Option : 1

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

Ans 1. Punched dressing

2. Close picked and fine tooling

X 3. Boasted or droved finish

4. Reticulated finish

Question ID: 630680509690
Option 1 ID: 6306801991968
Option 2 ID: 6306801991967
Option 3 ID: 6306801991966
Option 4 ID: 6306801991965
Status: Answered

Chosen Option : 1

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

Ans 💜 1. ogee fall

X 2. sarda fall

X 3. stepped fall

X 4. rapid fall

Question ID: 630680504327 Option 1 ID: 6306801970870 Option 2 ID: 6306801970872 Option 3 ID: 6306801970871

Option 4 ID : **6306801970869**

Status : Answered

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

Ans

X 1. simple curve

X 2. transitional curve

3. compound curve

X 4. parabolic curve

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

Chosen Option: 4

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

Ans X 1. distance to react

X 2. deacceleration distance

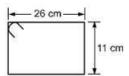
3. braking distance

X 4. stopping distance

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

Chosen Option: 3

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



Ans

X 1. 0.448 m

🥒 2. 0.884 m

X 3. 0.848 m

X 4. 0.440 m

Question ID: 630680339574

Option 1 ID : **6306801320817** Option 2 ID : **6306801320819** Option 3 ID : **6306801320818**

Option 4 ID : **6306801320820**

Status : Answered

Q.27 As per Euler's theory, buckling of the long column occurs when _____.

(Given, P = Applied axial load and P_{cr} = Crippling load by Euler's theory)

Ans X 1. P = P_{cr}

√ 2. P > P_{cr}

X 3. P < P_{cr}

X 4. P is of any value

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

Status : **Answered** Chosen Option : **2**

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

Ans X 1. For increasing the velocity of discharge

X 2. For faster discharge

3. To reduce the head loss due to friction in suction and delivery pipe

4. For increasing the speed of rotation of the crank

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

Chosen Option: 1

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

Ans X 1. Higher water-cement ratio in concrete

X 2. Use of superplasticisers

X 3. Use of round aggregates

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

Status : **Answered** Chosen Option : **4**

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

Ans 1. intangible

X 2. measurable

X 3. tangible

X 4. huge and tangible

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

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

Ans X 1. An electronic digital theodolite is not able to measure the vertical angle.

2. It is measured relative to the horizontal direction.

3. It is usually measured as a zenith angle.

X 4. It is measured from the instrument north in the horizontal plane.

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

Chosen Option: 3

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

Ans X 1. Moment area method

X 2. Conjugate beam method

3. Macaulay's method

X 4. Mohr's Theorem method

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

Chosen Option: 1

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

X 2. 268 ha/cumec

X 3. 278 ha/cumec

X 4. 298 ha/cumec

Question ID : 630680504343

Option 1 ID : **6306801970935** Option 2 ID : **6306801970936**

Option 3 ID : **6306801970933** Option 4 ID : **6306801970934**

Status : Answered

√ 1. 19 cm × 9 cm × 9 cm X 2. 25 cm × 19 cm × 9 cm X 3. 22 cm × 15 cm × 10 cm X 4. 19 cm × 18 cm × 18 cm Question ID: 630680198760 Option 1 ID: 630680771000 Option 2 ID: 630680771001 Option 3 ID: 630680770999 Option 4 ID: 630680771002 Status: Answered Chosen Option: 1 Q.35 The right limb of height h₂ in the simple u tube manometer containing mercury is open to atmosphere, while the left limb of height h1 is connected to pipe in which a liquid of specific gravity 1 is flowing with uniform speed with h₁ < h₂. This condition gives __ kind of pressure. X 1. negative gauge pressure 2. positive gauge pressure X 3. atmospheric pressure X 4. absolute pressure Question ID: 630680412948 Option 1 ID: 6306801610615 Option 2 ID: 6306801610616 Option 3 ID: 6306801610618 Option 4 ID: 6306801610617 Status: Answered Chosen Option: 3 Q.36 As per IS 456:2000, the minimum cross sectional area of longitudinal reinforcement(irrespective of load requirement) in a RCC column of size 150x300 mm shall NOT be less than____. Consider the limit state method of design. Ans X 1. 240 mm² √ 2. 360 mm² X 3. 440 mm² X 4. 780 mm² Question ID: 630680326652 Option 1 ID: 6306801270685 Option 2 ID: 6306801270686 Option 3 ID: 6306801270687 Option 4 ID: 6306801270688 Status: Not Answered Chosen Option: --

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

Q.37 Which of the following factors is not accounted in the cost estimation of a reinforced concrete (RC) water tank? 1. Density of water Ans X 2. Length of water tank X 3. height of water tank X 4. Thickness of RC slab and wall Question ID: 630680504078 Option 1 ID: 6306801969873 Option 2 ID: 6306801969874 Option 3 ID: 6306801969875 Option 4 ID: 6306801969876 Status: Answered Chosen Option: 1 Q.38 The markings on the kerbs are painted with which colour to increase user visibility? X 1. Alternate white and yellow X 2. Yellow Only X 3. Black Only 4. Alternate black and white Question ID: 630680509068 Option 1 ID: 6306801989568 Option 2 ID: 6306801989570 Option 3 ID: 6306801989567 Option 4 ID: 6306801989569 Status: Answered Chosen Option: 1 Q.39 In the case of preliminary estimate prepared per unit basis, the service units to be considered for a school and hospital are respectively Ans X 1. bench and ward 2. classroom and bed X 3. bench and bed X 4. classroom and ward Question ID: 630680504120 Option 1 ID: 6306801970044 Option 2 ID: 6306801970041 Option 3 ID: 6306801970043 Option 4 ID: 6306801970042 Status: Answered Chosen Option: 3

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

Ans X 1. Ready-mix concrete in wet condition is transported by using a transit mixer from the batching plant to the construction site.

X 2. Ready-mix concrete increases the speed of construction.

3. Ready-mix concrete packed in bags should be added with a hydration activator while mixing with water.

X 4. The mix design of RMC is tailor made to suit the placing methods of the contractor.

Question ID: 630680340573
Option 1 ID: 6306801324735
Option 2 ID: 6306801324733
Option 3 ID: 6306801324736
Option 4 ID: 6306801324734
Status: Answered

Chosen Option : 4

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

Ans X 1. the base period is much higher than the crop period

X 2. the base period is slightly more than the crop period

3. the base period is slightly less than the crop period

X 4. thebase period is equal to the crop period

Question ID: 630680504287 Option 1 ID: 6306801970711 Option 2 ID: 6306801970709 Option 3 ID: 6306801970710 Option 4 ID: 6306801970712 Status: Answered

Chosen Option : 3

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

Ans X 1. Calcium carbide method

X 2. Pycnometer method

X 3. Alcohol method

4. Torsional balance method

Question ID : **630680504520** Option 1 ID : **6306801971642**

Option 2 ID : **6306801971644** Option 3 ID : **6306801971641** Option 4 ID : **6306801971643**

Status: Answered

Q.43 A reinforced concrete slab must be designed as _____in order to develop complete the yield line pattern X 1. over reinforced X 2. shear reinforced 3. under reinforced ¥ 4. balanced reinforced Question ID: 630680398043 Option 1 ID: 6306801552189 Option 2 ID: 6306801552186 Option 3 ID: 6306801552188 Option 4 ID: 6306801552187 Status: Answered Chosen Option: 3 Q.44 Laminated wood offers several advantages over solid wood. Which of the following is NOT an advantage of laminated wood? √ 1. Structures can be designed with laminated wood based on the required strength and Ans low-grade wood can be positioned accordingly. X 2. It can be used to fabricate large members that are impossible to be made from solid wood. X 3. Individual boards, which are used in laminated wood due to their relative thinness, can be properly dried without checking (cracking) and defects, such as knots, can be X 4. Since laminated wood is glued, wood of only large dimensions can be used, which increases the amount of waste. Question ID: 630680509684 Option 1 ID: 6306801991943 Option 2 ID: 6306801991941 Option 3 ID: 6306801991942 Option 4 ID: 6306801991944 Status: Answered Chosen Option: 3 Q.45 Which of the following is/are the main advantage of using a dumpy level in surveying? i) Simple to use ii) Provides accurate level of reading iii) Can be used at night, without light Ans X 1. Only i X 2. Only ii 3. Both i and ii X 4. Only iii Question ID: 630680382449

> Option 1 ID : 6306801490711 Option 2 ID : 6306801490712 Option 3 ID : 6306801490714 Option 4 ID : 6306801490713 Status : Answered

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

Ans

1. shear reinforcement

X 2. tension reinforcement

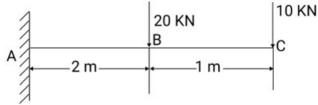
X 3. side reinforcement

X 4. compression reinforcement

Question ID: 630680398052 Option 1 ID: 6306801552224 Option 2 ID: 6306801552223 Option 3 ID: 6306801552225 Option 4 ID: 6306801552222 Status: Answered

Chosen Option: 1

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



Ans

$$\times$$
 2. $\frac{13.33}{EI}$

× 3.
$$\frac{85}{EI}$$

$$\times$$
 4. $\frac{105}{EI}$

Question ID: 630680404130

Option 1 ID: 6306801576009

Option 2 ID: 6306801576006

Option 3 ID: 6306801576007

Option 4 ID: 6306801576008

Status : Answered

Chosen Option: 2

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

Ans

√ 2. 150 cm

X 3. 15 cm

X 4. 1.5 cm

Question ID: 630680506235

Option 1 ID : 6306801978460

Option 2 ID: 6306801978457

Option 3 ID: 6306801978458

Option 4 ID : 6306801978459

Status: Not Answered

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

X 1. 16 hours

2. 24 hours

X 3. 12 hours

X 4. 9 hours

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

Status: Answered Chosen Option: 2

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

Ans

× 1.
$$\frac{50}{R}$$

$$\checkmark$$
 2. $\frac{7!}{R}$

$$\times$$
 3. $\frac{150}{R}$

$$\times$$
 4. $\frac{300}{R}$

Question ID: 630680191617 Option 1 ID: 630680743091 Option 2 ID: 630680743089 Option 3 ID: 630680743090

Option 4 ID: 630680743092 Status: Answered Chosen Option: 4

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

Ans X 1. 0 and 1.0

X 2. 0 and 0.5

X 4. 0.25 and 0.5

Question ID: 630680509668

Option 1 ID: 6306801991880 Option 2 ID: 6306801991877

Option 3 ID: 6306801991879 Option 4 ID: 6306801991878

Status: Not Answered

Q.52	What is the best side slope (n) for the most economic trapezoidal channel having depth d and base width b?
Ans	× 1. √3



$$\checkmark$$
 3. $\frac{1}{\sqrt{3}}$

Question ID: 630680385057 Option 1 ID: 6306801501114 Option 2 ID: 6306801501116 Option 3 ID: 6306801501115 Option 4 ID: 6306801501117 Status: Answered

Chosen Option: 3

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

Ans X 1. ₹30,00,000

2. ₹22,50,000

X 3. ₹20,00,000

X 4. ₹42,50,000

Question ID: 630680504119 Option 1 ID: 6306801970038 Option 2 ID: 6306801970037 Option 3 ID: 6306801970039 Option 4 ID: 6306801970040 Status: Answered

Chosen Option : 2

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

✓ 1. Vertical distances are exaggerated as compared to horizontal distances.

X 2. Both horizontal and vertical distances are always plotted to 1 : 1 scale.

3. Horizontal distances are exaggerated as compared to vertical distances.

X 4. Both horizontal and vertical distances are plotted to the same scale.

Question ID: 630680506227 Option 1 ID: 6306801978427 Option 2 ID: 6306801978428 Option 3 ID: 6306801978426 Option 4 ID: 6306801978425 Status: Answered

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

X 1. Length of pipe



2. friction factor



X 4. Flow velocity

Question ID: 630680506987 Option 1 ID: 6306801981455 Option 2 ID: 6306801981454 Option 3 ID: 6306801981456 Option 4 ID: 6306801981453 Status: Answered

Chosen Option: 3

Q.56 Based on Allen-Hazens experiments, the co-efficient of permeabilty k (cm/s) is related to the effective size of soil D₁₀ (cm) as ______. (where C is a constant with a value between 100 and 150).

Ans

$$\times$$
 1. k = C/D₁₀²

$$\times$$
 2. $k = D_{10}/C^2$

$$\checkmark$$
 3. $k = CD_{10}^2$

$$\times$$
 4. k = C^2D_{10}

Question ID: 630680504562 Option 1 ID: 6306801971810 Option 2 ID: 6306801971812

Option 3 ID: 6306801971809 Option 4 ID: 6306801971811 Status: Answered

Chosen Option: 3

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

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

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

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

2. Both Assertion and Reason are false.

X 3. Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.

4. Assertion is true, but Reason is false.

Question ID: 630680504333

Option 1 ID: 6306801970893

Option 2 ID: 6306801970896 Option 3 ID: 6306801970894

Option 4 ID: 6306801970895

Status: Answered

Q.58 Which of the following estimates mostly resembles a detailed estimate? Ans X 1. Annual maintenance estimate X 2. Rough estimate 3. Item rate estimate X 4. Quantity estimate Question ID: 630680504088 Option 1 ID: 6306801969913 Option 2 ID: 6306801969916 Option 3 ID: 6306801969915 Option 4 ID: 6306801969914 Status: Answered Chosen Option: 4 Q.59 The specific gravity of most of the stones lies between _ Ans 1. 2 and 3 X 2. 3.5 and 4 X 3. 3 and 3.5 X 4. 1 and 2 Question ID: 630680509697 Option 1 ID: 6306801991994 Option 2 ID: 6306801991996 Option 3 ID: 6306801991995 Option 4 ID: 6306801991993 Status: Answered Chosen Option: 1 Q.60 When pipes of different diameters are connected in series from end to end to form a pipe line, the total head loss developed is equal to_ Ans X 1. Zero X 2. sum of major head losses in each pipe X 3. Sum of local head losses only 4. Sum of local head losses and major head losses in each pipe Question ID: 630680506978 Option 1 ID: 6306801981420 Option 2 ID: 6306801981418 Option 3 ID: 6306801981417 Option 4 ID: 6306801981419 Status: Answered Chosen Option: 4 Q.61 Which of the following statements regarding the vertical circle of a theodolite is Ans X 1. Both the graduation circle and the Vernier scale move with the telescope. X 2. Both the graduation circle and the Vernier scale are fixed, while the telescope moves. X 3. The graduation circle is fixed, but the Vernier scale moves with the telescope. Question ID: 630680506218 Option 1 ID: 6306801978391 Option 2 ID: 6306801978392 Option 3 ID: 6306801978390 Option 4 ID: 6306801978389

Status: Answered

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

Ans X 1. Preliminary estimate

X 2. Abstract estimate

3. Detailed estimate

X 4. Approximate estimate

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

Status : Answered

Chosen Option: 3

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

Ans X 1. Service unit method

X 2. Cubical content method

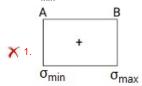
X 3. Plinth area rate method

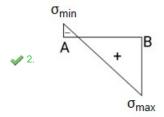
4. Revised estimate

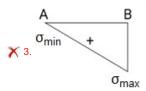
Question ID: 630680211778 Option 1 ID: 630680821259 Option 2 ID: 630680821260 Option 3 ID: 630680821261 Option 4 ID: 630680821262 Status: Answered

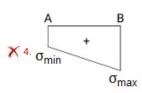
Q.64 Which of the following stress distribution diagrams represents the condition where the intensity of direct stress is less than the intensity of bending stress? Where σ_{min} is minimum resultant stress and σ_{max} is maximum resultant stress.

Ans









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

Status : **Answered** Chosen Option : **3**

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

Ans 1. careless holding and marking

X 2. sag in chain

X 3. bad ranging

X 4. variation in temperature

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

Option 4 ID : **6306801978375**

Status : Answered

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

Ans 1. Storing surplus rainwater by constructing bunds, ponds, etc. belongs to the category of area treatment method.

X 2. In temperate regions, DDT has a half-life of 10–15 years.

X 3. Irrigation water can cause salinisation of soil.

4. The area treatment method to prevent soil erosion involves treating the natural water courses.

Question ID: 630680509507
Option 1 ID: 6306801991300
Option 2 ID: 6306801991298
Option 3 ID: 6306801991297
Option 4 ID: 6306801991299
Status: Answered

Chosen Option : 3

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

Ans 🚀 1. High compressive strength

X 2. Low durability

X 3. Low thermal conductivity

X 4. Low tensile strength

Question ID: 630680357647 Option 1 ID: 6306801392579 Option 2 ID: 6306801392578 Option 3 ID: 6306801392580 Option 4 ID: 6306801392577 Status: Answered

Chosen Option : 1

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

Ans X 1. E = 1.3G

X 2. K = 0.9E

√ 3. E = 2.7G

X 4. G = 2.7E

Question ID: 630680509119 Option 1 ID: 6306801989771 Option 2 ID: 6306801989773 Option 3 ID: 6306801989774 Option 4 ID: 6306801989772

Status: Not Answered

Q.69 Which of the following type of coarse aggregate is preferred in road construction, so that greatest density of road layer is achieved? X 1. Any type of aggregates X 2. Single-size aggregates X 3. porous aggregates 4. All-in aggregates Question ID: 630680357659 Option 1 ID: 6306801392628 Option 2 ID: 6306801392626 Option 3 ID: 6306801392627 Option 4 ID: 6306801392625 Status: Answered Chosen Option: 2 Q.70 A direct runoff hydrograph of triangular shape, caused by a storm, has a time base of 100 hours and the peak flow of 50 cumec occurring at 30 hours from the start. If the catchment area is 150 km², the rainfall excess of the storm was _ Ans X 1. 5.6 cm X 2. 6.8 cm X 3. 7.2 cm √ 4. 6 cm Question ID: 630680504306 Option 1 ID: 6306801970786 Option 2 ID: 6306801970788 Option 3 ID: 6306801970785 Option 4 ID: 6306801970787 Status: Not Answered Chosen Option: --Q.71 Find the correct statement regarding the assumption of limit state design under compression member as per IS 456:2000. X 1. The minimum compressive strain in concrete in axial compression is 0.002. Ans 2. The minimum compressive strain in concrete in axial compression is 0.0002. 3. The maximum compressive strain in concrete in axial compression is 0.002. X 4. The maximum compressive strain in concrete in axial compression is 0.02. Question ID: 630680509667 Option 1 ID: 6306801991873 Option 2 ID: 6306801991874 Option 3 ID: 6306801991876 Option 4 ID: 6306801991875 Status: Answered Chosen Option: 1

Q.72 Bernoulli's equation is applicable for: √ 1. incompressible fluids X 2. viscous fluids X 3. compressible fluids X 4. rotational fluids Question ID: 630680506972 Option 1 ID: 6306801981396 Option 2 ID: 6306801981394 Option 3 ID: 6306801981393 Option 4 ID: 6306801981395 Status: Answered Chosen Option: 1 Q.73 Identify the canal regulation structure, used for closing the supply to the downstream of the parent canal during repairs. 1. cross regulator X 2. distributary regulator X 3. head regulator X 4. stream regulator Question ID: 630680504292 Option 1 ID: 6306801970730 Option 2 ID: 6306801970732 Option 3 ID: 6306801970729 Option 4 ID: 6306801970731 Status: Answered

Chosen Option : 1

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

Ans X 1. black

X 2. blue

3. brown

X 4. yellow

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

Chosen Option : 3

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

Ans 1. Pulverised coal injection

X 2. Programmed coke heating

X 3. Heat recovery from hot sinter

X 4. Dry quenching

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

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

Statement I: The load on treatment units becomes less.

Statement II: Sewers are large in diameter.

Statement III: Maintenance costs are reasonable.

Ans X 1. Only II

X 2. Only III

X 4. Only II and III

Question ID : 630680509473
Option 1 ID : 6306801991164
Option 2 ID : 6306801991163
Option 3 ID : 6306801991161
Option 4 ID : 6306801991162
Status : Answered

Chosen Option: 3

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

Ans X 1. at the Equator during summer

2. at the Magnetic Poles during summer

X 3. at the Equator during winter

X 4. at the Magnetic Poles during winter

Question ID: 630680506232 Option 1 ID: 6306801978445 Option 2 ID: 6306801978446 Option 3 ID: 6306801978447 Option 4 ID: 6306801978448

Status: Answered

Chosen Option : 2

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

Ans X 1. The day time and night time limits of noise in commercial areas are 75 dB and 70 dB, respectively.

X 2. Day time shall mean the period from 6.00 a.m. to 10.00 p.m.

3. There are three categories of zones.

4. Silence zone is an area comprising not less than 100 m around hospitals, etc.

Question ID: 630680509508 Option 1 ID: 6306801991302 Option 2 ID: 6306801991304 Option 3 ID: 6306801991301 Option 4 ID: 6306801991303

Status : **Answered** Chosen Option : **4**

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

Ans 1.415 N/mm²

2. 435 N/mm²
 3. 217.5 N/mm²

√ 4. 361.05 N/mm²

Question ID: 630680377292 Option 1 ID: 6306801470231 Option 2 ID: 6306801470234 Option 3 ID: 6306801470233 Option 4 ID: 6306801470232 Status: Answered

Chosen Option : 1

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

Ans 🗳 1. Bleeding

X 2. Permeability

X 3. Seepage

X 4. Efflorescence

Question ID : 630680191311 Option 1 ID : 630680741885 Option 2 ID : 630680741886 Option 3 ID : 630680741888 Option 4 ID : 630680741887 Status : Answered

Chosen Option: 1

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

Ans X 1. Primary treatment and disinfection

X 2. Primary treatment and secondary treatment

X 3. Disinfection and secondary treatment

4. Primary treatment, secondary treatment and disinfection

Question ID: 630680509503 Option 1 ID: 6306801991284 Option 2 ID: 6306801991282 Option 3 ID: 6306801991283 Option 4 ID: 6306801991281 Status: Answered

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

Ans

- \times 1. [0.87 $f_{ck}A_c + f_{sc}As_c$]
- \times 2. $[0.45 f_{sc}As_c + f_{ck}A_c]$
- \times 3. $[0.87 f_{sc}As_c + f_{ck}A_c]$
- √ 4. [0.4f_{ck}A_c+0.67f_vA_{sc}]

Question ID: 630680398037

Option 1 ID: 6306801552165 Option 2 ID: 6306801552162

Option 3 ID: 6306801552163

Option 4 ID: 6306801552164

Status: Answered

Chosen Option: 3

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

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

Question ID: 630680388965

Option 1 ID: 6306801516324

Option 2 ID: 6306801516325

Option 3 ID: 6306801516322

Option 4 ID: 6306801516323 Status: Answered

Chosen Option: 3

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

- X 1. timeline
- 2. streamline
- X 3. pathline
- X 4. streakline

Question ID: 630680506961

Option 1 ID: 6306801981352

Option 2 ID: 6306801981351

Option 3 ID: 6306801981349

Option 4 ID: 6306801981350

Status: Answered

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

Ans

- \times 1. $\frac{50}{\pi}$ N/mm²
- \times 2. $\frac{10}{\pi}$ N/mm²
- \times 4. $\frac{15}{\pi}$ N/mm²

Question ID: 630680326657 Option 1 ID: 6306801270708 Option 2 ID: 6306801270706 Option 3 ID: 6306801270705

Option 4 ID : 6306801270707

Status : Answered

Chosen Option: 3

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

Ans

X 1. Friction piles

2. Compaction piles

X 3. End bearing piles

X 4. Tension piles

Question ID : 630680504102

Option 1 ID: **6306801969972** Option 2 ID: **6306801969970** Option 3 ID: **6306801969969**

Option 4 ID : **6306801969971**

Status : Answered

Chosen Option : 1

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

Ans

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

Question ID: 630680506951

Option 1 ID: 6306801981310

Option 2 ID : **6306801981311** Option 3 ID : **6306801981312**

Option 4 ID: 6306801981309

Status: Answered

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

Ans X 1. Iron – 0.5 mg/l

X 3. Fluorides - 0.5 mg/l

X 4. pH – 7

Question ID: 630680509467 Option 1 ID: 6306801991138 Option 2 ID: 6306801991140 Option 3 ID: 6306801991139 Option 4 ID: 6306801991137 Status: Answered

Chosen Option : 4

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

Ans X 1. magnitude of loads

X 2. type of soil

3. Optimum moisture content (OMC) of soil

X 4. depth of ground water table

Question ID: 630680181875 Option 1 ID: 630680704735 Option 2 ID: 630680704736 Option 3 ID: 630680704737 Option 4 ID: 630680704734 Status: Answered

Chosen Option: 4

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

Ans X 1. Protects the pavement edge

X 2. Presents a more finished appearance

X 4. acts as a boundary between the pavement and the footpath.

Question ID: 630680198264 Option 1 ID: 630680769227 Option 2 ID: 630680769230 Option 3 ID: 630680769229 Option 4 ID: 630680769228

Status : Answered

Q.91 A rectangular RCC beam section having a width of 200 mm and depth of 300 mm is subjected to a factored shear force of 60 kN. Determine the nominal shear stress acting in the section if the effective cover is 50 mm and grade of concrete is M 20 and the grade of steel is Fe 415. Ans √ 1. 1.2 N/mm² X 2. 1.4 N/mm² X 3. 1 N/mm² X 4. 0.86 N/mm² Question ID: 630680509647 Option 1 ID: 6306801991794 Option 2 ID: 6306801991796 Option 3 ID: 6306801991793 Option 4 ID: 6306801991795 Status: Not Answered Chosen Option: --Q.92 Assuming the stress block diagram of the rectangular concrete beam section as per IS 456-2000, the depth of the centre of compressive force measured from the neutral axis is given by: (Assuming $\mathbf{X}_{\mathbf{u}}$ as the depth of neutral axis from top compression fiber) √ 1. 0.58 X_u Ans X 2. 0.36 X_u X 3. 0.67 X_u X 4. 0.42 X₁₁ Question ID: 630680509662 Option 1 ID: 6306801991855 Option 2 ID: 6306801991854 Option 3 ID: 6306801991856 Option 4 ID: 6306801991853 Status: Answered Chosen Option: 2 Q.93 Which of the given procedures should be followed before applying paint onto different components of a building? i) Chalking ii) Flaking iii) Removing blisters iv) Surface wetting Ans X 1. Only (i) X 2. (ii) and (iii) X 3. (i), (ii) and (iii) 4. All of (i), (ii), (iii) and (iv)

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

X 1. measurement of wave travel time 2. measurement of phase difference between transmitted and reflected signals X 3. measurement of velocity of infra-red signals X 4. measurement by invar tape Question ID: 630680506246 Option 1 ID: 6306801978502 Option 2 ID: 6306801978501 Option 3 ID: 6306801978504 Option 4 ID: 6306801978503 Status: Answered Chosen Option: 2 Q.95 For a given open channel, if the Chezy's coefficient (C) is decreased, then how will it affect the discharge (Q) of the flow? 1. Q will decrease Ans X 2. Q will become zero X 3. Q will remain constant X 4. Q will increase Question ID: 630680385050 Option 1 ID: 6306801501086 Option 2 ID: 6306801501089 Option 3 ID: 6306801501088 Option 4 ID: 6306801501087 Status: Answered Chosen Option: 1 Q.96 Timber which are slow and difficult to season free from defects, are classified as based upon their behaviour to cracking and splitting during normal air-seasoning Ans X 1. Low refractory 2. High refractory X 3. Moderate refractory X 4. Null refractory Question ID: 630680509688 Option 1 ID: 6306801991959 Option 2 ID: 6306801991957 Option 3 ID: 6306801991958 Option 4 ID: 6306801991960 Status: Answered Chosen Option: 2

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

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

Ans 1. Volumetric strain = 0.25, change in volume = 500 mm³

 \times 2. Volumetric strain = 0.3, change in volume = 60×10^4 mm³

 \checkmark 3. Volumetric strain = 0.25, change in volume = 5 × 10⁵ mm³

X 4. Volumetric strain = 0.7, change in volume = 1400 cm³

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

Chosen Option : --

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

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

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

√ 2. A-4, B-3, C-1

X 3. A-3, B-4, C-1

X 4. A-2, B-2, C-4

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

Chosen Option: 2

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

Ans X 1. Rapid-hardening cement

2. Sulphate-resisting cement

X 3. Extra rapid-hardening cement

X 4. Portland slag cement

Question ID : 630680503291 Option 1 ID : 6306801966750 Option 2 ID : 6306801966751 Option 3 ID : 6306801966749

Option 4 ID : **6306801966752** Status : **Answered**

Q.100 Select the option that is appropriate regarding the following two statements labelled Assertion and Reason.

Assertion: Proper deep ploughing, which is done by tractors, requires overall less quality of water and hence, the duty is high.

Reason: Ploughing should be done properly and deeply so that the moisture-retaining capacity of the soil is increased.

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

X 2. Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.

X 3. Both Assertion and Reason are false.

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

> Question ID: 630680504342 Option 1 ID: 6306801970931 Option 2 ID: 6306801970930 Option 3 ID: 6306801970932

Option 4 ID : **6306801970929** Status : **Answered**