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**Previous Year Paper
(Civil)**

29 Oct, 2025 Shift 1

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Participant ID	
Participant Name	
Test Center Name	
Test Date	29/10/2025
Test Time	9:00 AM - 12:00 PM
Subject	Junior Engineer Civil

Section : General Awareness

Q.1	In March 2025, why has India imposed anti-dumping duties on five Chinese products?
Ans	<input checked="" type="checkbox"/> 1. To promote Chinese imports
	<input checked="" type="checkbox"/> 2. To increase trade relations with China
	<input checked="" type="checkbox"/> 3. To protect domestic industries from unfairly priced imports
	<input checked="" type="checkbox"/> 4. To reduce the cost of imported goods

Question ID : 441009113613
Option 1 ID : 441009451946
Option 2 ID : 441009451947
Option 3 ID : 441009451949
Option 4 ID : 441009451948
Status : Answered
Chosen Option : 3

Q.2	What is India's ranking in the 2025 Hurun Global Rich List in terms of the number of billionaires?
Ans	<input checked="" type="checkbox"/> 1. Fifth
	<input checked="" type="checkbox"/> 2. Third
	<input checked="" type="checkbox"/> 3. Second
	<input checked="" type="checkbox"/> 4. Seventh

Question ID : 441009131619
Option 1 ID : 441009523064
Option 2 ID : 441009523063
Option 3 ID : 441009523062
Option 4 ID : 441009523065
Status : Not Answered
Chosen Option : --

Q.3 Under which Article of the Indian Constitution does the Supreme Court have special advisory jurisdiction in matters which may specifically be referred to it by the President of India?

- Ans
- ☐ 1. Article 226
 - ☐ 2. Article 126
 - ☒ 3. Article 143
 - ☐ 4. Article 32

Question ID : 441009266099
Option 1 ID : 4410091033844
Option 2 ID : 4410091033845
Option 3 ID : 4410091033846
Option 4 ID : 4410091033847
Status : Answered
Chosen Option : 3

Q.4 The Pashupati Seal or Proto-Siva Seal was excavated from which of the following sites of the Indus Valley Civilisation?

- Ans
- ☐ 1. Daimabad
 - ☒ 2. Mohenjodaro
 - ☐ 3. Rakhigarhi
 - ☐ 4. Kalibangan

Question ID : 441009219126
Option 1 ID : 441009860017
Option 2 ID : 441009860016
Option 3 ID : 441009860015
Option 4 ID : 441009860018
Status : Not Answered
Chosen Option : --

Q.5 According to India's 4th Biennial Update Report to the UNFCCC (December 2024), what was the percentage decline in India's GHG emissions in 2020 compared to 2019?

- Ans
- ☐ 1. 9.25%
 - ☐ 2. 11.30%
 - ☐ 3. 4.42%
 - ☒ 4. 7.93%

Question ID : 441009113634
Option 1 ID : 441009452032
Option 2 ID : 441009452031
Option 3 ID : 441009452030
Option 4 ID : 441009452033
Status : Not Answered
Chosen Option : --

Q.6	What key feature does the new Immigration Bill, 2025, introduce for foreigners visiting India?
Ans	<div><div><div>✖</div><div>1. Exemption from immigration checks</div></div><div><div>✖</div><div>2. Free visa-on-arrival for all countries</div></div><div><div>✖</div><div>3. Automatic citizenship for long-term visitors</div></div><div><div>✔</div><div>4. Real-time tracking and scrutiny at multiple stages</div></div></div>

Question ID :	441009131614
Option 1 ID :	441009523043
Option 2 ID :	441009523042
Option 3 ID :	441009523044
Option 4 ID :	441009523045
Status :	Answered
Chosen Option :	4

Q.7	In which year did Rashbehari Bose and Sachin Sanyal stage a spectacular bomb attack on Viceroy Hardinge as he made his official entry into the new capital of Delhi in a procession through Chandni Chowk?
Ans	<div><div><div>✖</div><div>1. 1915</div></div><div><div>✖</div><div>2. 1921</div></div><div><div>✔</div><div>3. 1912</div></div><div><div>✖</div><div>4. 1905</div></div></div>

Question ID :	441009290324
Option 1 ID :	4410091128234
Option 2 ID :	4410091128232
Option 3 ID :	4410091128233
Option 4 ID :	4410091128231
Status :	Not Answered
Chosen Option :	--

Q.8	Bani Thani paintings are associated with which of the following schools of painting?
Ans	<div><div><div>✖</div><div>1. Bundi School</div></div><div><div>✔</div><div>2. Kishangarh School</div></div><div><div>✖</div><div>3. Mewar School</div></div><div><div>✖</div><div>4. Basohli School</div></div></div>

Question ID :	441009219154
Option 1 ID :	441009860086
Option 2 ID :	441009860085
Option 3 ID :	441009860088
Option 4 ID :	441009860087
Status :	Not Answered
Chosen Option :	--

Q.9 What was the share of the agricultural sector in India's gross national income during 1950-51?

Ans ☒ 1. More than 50%

☐ 2. Less than 20%

☐ 3. More than 80%

☐ 4. Less than 10%

Question ID : 441009230025

Option 1 ID : 441009899194

Option 2 ID : 441009899197

Option 3 ID : 441009899195

Option 4 ID : 441009899196

Status : Answered

Chosen Option : 3

Q.1 Where were the Khelo India Para Games 2025 held?
0

Ans ☒ 1. New Delhi

☐ 2. Uttar Pradesh

☐ 3. Madhya Pradesh

☐ 4. Bihar

Question ID : 441009119378

Option 1 ID : 441009474634

Option 2 ID : 441009474632

Option 3 ID : 441009474631

Option 4 ID : 441009474633

Status : Answered

Chosen Option : 1

Q.1 Which of the following statements about the agricultural sector in India post the
1 Liberalisation, Privatisation and Globalisation (LPG) reforms of 1991 is correct?

Ans ☐ 1. India has not been exporting any cereals to foreign countries since 1991.

☒ 2. India has been a net exporter of agri-products since the reforms in 1991.

☐ 3. India has banned the import of pulses to India since 1991.

☐ 4. India has been a net importer of agri-products since the reforms in 1991.

Question ID : 441009229991

Option 1 ID : 441009899099

Option 2 ID : 441009899097

Option 3 ID : 441009899100

Option 4 ID : 441009899098

Status : Answered

Chosen Option : 4

Q.1 What is the endodermis also called, in a dicotyledonous stem?
2

Ans ☒ 1. Medullary rays

☒ 2. Starch sheath

☒ 3. Pericycle

☒ 4. Pith

Question ID : 44100987427

Option 1 ID : 441009347582

Option 2 ID : 441009347580

Option 3 ID : 441009347579

Option 4 ID : 441009347581

Status : Not Answered

Chosen Option : --

Q.1 Who among the following received the Padma Bhushan for their contributions to the field of Art in 2025?
3

Ans ☒ 1. Ustad Rashid Khan

☒ 2. Pandit Shivkumar Sharma

☒ 3. Shri Ilaiyaraaja

☒ 4. Ms. Shobana Chandrakumar

Question ID : 441009113658

Option 1 ID : 441009452124

Option 2 ID : 441009452123

Option 3 ID : 441009452125

Option 4 ID : 441009452122

Status : Not Answered

Chosen Option : --

Q.1 The 14th edition of the India-Russia naval exercise INDRA 2025 was held in which of the following cities?
4

Ans ☒ 1. Chennai

☒ 2. Visakhapatnam

☒ 3. Mumbai

☒ 4. Kochi

Question ID : 441009131605

Option 1 ID : 441009523008

Option 2 ID : 441009523007

Option 3 ID : 441009523006

Option 4 ID : 441009523009

Status : Not Answered

Chosen Option : --

Q.1 5 Guillain-Barré Syndrome (GBS), which was frequently in news in early 2025, primarily affects which part of the body?

Ans ☒ 1. Respiratory system

☒ 2. Peripheral nervous system

☒ 3. Muscular system

☒ 4. Endocrine system

Question ID : 441009131626

Option 1 ID : 441009523091

Option 2 ID : 441009523093

Option 3 ID : 441009523090

Option 4 ID : 441009523092

Status : Not Answered

Chosen Option : --

Q.1 6 Babool, ber, wild date palm, khair, neem, khejri and palas are important species of plants found in which of the following forests in India?

Ans ☒ 1. Tropical Thorn Forests

☒ 2. Montane Forests

☒ 3. Tropical Deciduous Forests

☒ 4. Tropical Evergreen Forests

Question ID : 441009265761

Option 1 ID : 4410091032914

Option 2 ID : 4410091032913

Option 3 ID : 4410091032915

Option 4 ID : 4410091032916

Status : Answered

Chosen Option : 3

Q.1 7 In March 2025, which Indian artist's painting recently sold for over ₹118 crore, making it the most expensive modern Indian artwork?

Ans ☒ 1. Amrita Sher-Gil

☒ 2. MF Hussain

☒ 3. Tyeb Mehta

☒ 4. Raja Ravi Varma

Question ID : 441009113726

Option 1 ID : 441009452387

Option 2 ID : 441009452388

Option 3 ID : 441009452389

Option 4 ID : 441009452386

Status : Not Answered

Chosen Option : --

Q.1
8 Relief of Lucknow, a painting drawn in the context of the 1857 revolt to provoke Indians and to commemorate the British heroes who saved the English and repressed the rebels, is a work by _____.

Ans ☒ 1. Joseph Noel Paton

☒ 2. Thomas Jones Barker

☒ 3. Colonel Inglis

☒ 4. Henry Lawrence

Question ID : 441009288293

Option 1 ID : 4410091120090

Option 2 ID : 4410091120088

Option 3 ID : 4410091120087

Option 4 ID : 4410091120089

Status : Not Answered

Chosen Option : --

Q.1
9 Similipal, the 107th national park in India, is located in which of the following states?

Ans ☒ 1. Rajasthan

☒ 2. West Bengal

☒ 3. Assam

☒ 4. Odisha

Question ID : 441009265734

Option 1 ID : 4410091032807

Option 2 ID : 4410091032805

Option 3 ID : 4410091032808

Option 4 ID : 4410091032806

Status : Answered

Chosen Option : 4

Q.2
0 For which digital initiatives did RBI receive the Digital Transformation Award 2025?

Ans ☒ 1. UPI & RuPay

☒ 2. Pravaah & Sarthi

☒ 3. Bharat Bill Pay & NEFT

☒ 4. e-RUPI & FASTag

Question ID : 441009113649

Option 1 ID : 441009452086

Option 2 ID : 441009452089

Option 3 ID : 441009452088

Option 4 ID : 441009452087

Status : Answered

Chosen Option : 1

Q.2	Which sport is Arjuna Award 2024 winner Rakesh Kumar associated with?
1	
Ans	<input checked="" type="checkbox"/> 1. Table Tennis
	<input checked="" type="checkbox"/> 2. Para-Archery
	<input checked="" type="checkbox"/> 3. Para-Badminton
	<input checked="" type="checkbox"/> 4. Weightlifting

Question ID :	441009113740
Option 1 ID :	441009452443
Option 2 ID :	441009452445
Option 3 ID :	441009452442
Option 4 ID :	441009452444
Status :	Answered
Chosen Option :	2

Q.2	Which of the following statements regarding the coastal plains in India is/are correct?
2	
	1. The eastern coastal plains are an example of submerged coastal plain.
	2. The western coastal plain is broader and is an example of an emergent coast.
	3. The Malabar coast across Kerala has got a certain distinguishing feature in the form of 'Kayals.'
Ans	<input checked="" type="checkbox"/> 1. 3 only
	<input checked="" type="checkbox"/> 2. 1, 2 and 3
	<input checked="" type="checkbox"/> 3. 1 and 2 only
	<input checked="" type="checkbox"/> 4. 1 and 3 only

Question ID :	441009265766
Option 1 ID :	4410091032934
Option 2 ID :	4410091032935
Option 3 ID :	4410091032936
Option 4 ID :	4410091032933
Status :	Answered
Chosen Option :	2

Q.2	Who among the following summons, prorogues, addresses, sends messages to the Parliament in India, and promulgates ordinances at any time, except when both Houses of the Parliament are in session?
3	
Ans	<input checked="" type="checkbox"/> 1. Chief Justice of India
	<input checked="" type="checkbox"/> 2. Speaker of the Lok Sabha
	<input checked="" type="checkbox"/> 3. Prime Minister of India
	<input checked="" type="checkbox"/> 4. President of India

Question ID :	441009266098
Option 1 ID :	4410091033840
Option 2 ID :	4410091033841
Option 3 ID :	4410091033843
Option 4 ID :	4410091033842
Status :	Answered
Chosen Option :	4

Q.2 Which of the following Articles of the Indian Constitution directs the State to take steps to separate the judiciary from the executive in the public services of the State?

Ans ☒ 1. Article 56

☒ 2. Article 44

☒ 3. Article 35

☒ 4. Article 50

Question ID : 441009265823

Option 1 ID : 4410091033164

Option 2 ID : 4410091033163

Option 3 ID : 4410091033161

Option 4 ID : 4410091033162

Status : Answered

Chosen Option : 1

Q.2 Which rocket did ISRO successfully launch in its 100th launch mission from Sriharikota in 2025?

Ans ☒ 1. Chandrayaan-4

☒ 2. SSLV D3

☒ 3. PSLV C55

☒ 4. GSLV F15

Question ID : 441009131632

Option 1 ID : 441009523116

Option 2 ID : 441009523117

Option 3 ID : 441009523115

Option 4 ID : 441009523114

Status : Answered

Chosen Option : 4

Q.2 The international trans-shipment port at Galathea Bay is located in which of the following States or Union Territories in India?

Ans ☒ 1. Andaman & Nicobar Islands

☒ 2. Kerala

☒ 3. Maharashtra

☒ 4. Lakshadweep

Question ID : 441009229891

Option 1 ID : 441009898820

Option 2 ID : 441009898822

Option 3 ID : 441009898823

Option 4 ID : 441009898821

Status : Not Answered

Chosen Option : --

Q.2 Which of the following statements regarding Fundamental Rights in India is
7 INCORRECT?

Ans ✗ 1. Fundamental Rights are negative or prohibitive in nature because they put limitation on the State.

✓ 2. Article 44 that directs the State to secure for the citizens a uniform civil code through the territory of India is included under the Fundamental Rights.

✗ 3. Fundamental Rights are justiciable, and a person can appeal to the court of law if his/her fundamental rights are violated.

✗ 4. Fundamental Rights establish liberal political democracy in India and protect the interests of its individuals.

Question ID : 441009266091

Option 1 ID : 4410091033812

Option 2 ID : 4410091033815

Option 3 ID : 4410091033813

Option 4 ID : 4410091033814

Status : Answered

Chosen Option : 2

Q.2 The decline of the Gupta empire resulted in the emergence of numerous ruling
8 dynasties in different parts of northern India. Which of the following dynasties emerged in the Valabhi region?

Ans ✗ 1. Pushyabhutis

✗ 2. Maukharies

✗ 3. Hunas

✓ 4. Maitrakas

Question ID : 441009288285

Option 1 ID : 4410091120055

Option 2 ID : 4410091120056

Option 3 ID : 4410091120058

Option 4 ID : 4410091120057

Status : Not Answered

Chosen Option : --

Q.2 What was the Bengali weekly newspaper started by Sri Aurobindo that preached open
9 revolt and absolute denial of British rule?

Ans ✗ 1. Sudharak

✗ 2. Kesari

✓ 3. Yugantar

✗ 4. Swarajya

Question ID : 441009290345

Option 1 ID : 4410091128317

Option 2 ID : 4410091128318

Option 3 ID : 4410091128315

Option 4 ID : 4410091128316

Status : Not Answered

Chosen Option : --

Q.3 Which of the following conservation sites is not only a national park but also a tiger reserve in India?

- Ans ☒ 1. Madhav National Park
- ☐ 2. Gir National Park
- ☐ 3. Hemis National Park
- ☐ 4. Galathea National Park

Question ID : 441009265737

Option 1 ID : 4410091032817

Option 2 ID : 4410091032818

Option 3 ID : 4410091032820

Option 4 ID : 4410091032819

Status : Answered

Chosen Option : 1

Section : Reasoning

Q.1 Select the pair which follows the same pattern as that followed by the two set of pairs given below. Both pairs follow the same pattern.
EJN : GMQ
OIF : QLI

- Ans ☐ 1. NMT : PPX
- ☐ 2. PQO : RSS
- ☒ 3. URQ : WUT
- ☐ 4. TVL : VYP

Question ID : 4410091313812

Option 1 ID : 4410095186947

Option 2 ID : 4410095186949

Option 3 ID : 4410095186948

Option 4 ID : 4410095186950

Status : Answered

Chosen Option : 3

Q.2 In a certain code language,
'A # B' means 'A is the daughter of B',
'A % B' means 'A is the father of B',
'A - B' means 'A is the son of B' and
'A @ B' means 'A is the sister of B'.
How is S related to U if 'S % M @ H - Y # U'?

- Ans ☐ 1. Son
- ☒ 2. Daughter's husband
- ☐ 3. Husband
- ☐ 4. Daughter's son

Question ID : 4410091313835

Option 1 ID : 4410095187042

Option 2 ID : 4410095187039

Option 3 ID : 4410095187041


Option 4 ID : 4410095187040

Status : Answered

Chosen Option : 2

4. Three

Question ID :	4410091313727
Option 1 ID :	4410095186607
Option 2 ID :	4410095186608
Option 3 ID :	4410095186609
Option 4 ID :	4410095186610
Status :	Not Answered
Chosen Option :	--

b	★	b	★	★	
★					?
			b	b	

b

★

b

★

Question ID :	441009684311
Option 1 ID :	4410092691213
Option 2 ID :	4410092691212
Option 3 ID :	4410092691214
Option 4 ID :	4410092691215
Status :	Answered
Chosen Option :	1

Q.5 Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

UC 11 , WG 25 , YK39, AO 53 , ?

Ans ☒ 1. DR 69

☒ 2. CS 67

☒ 3. CQ 66

☒ 4. DP 62

Question ID : 4410091313699

Option 1 ID : 4410095186498

Option 2 ID : 4410095186496

Option 3 ID : 4410095186497

Option 4 ID : 4410095186495

Status : Answered

Chosen Option : 2

Q.6 What will come in the place of the question mark (?) in the following equation if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$82 + 9 \div 7 - 32 \times 4 = ?$

Ans ☒ 1. 37

☒ 2. 23

☒ 3. 27

☒ 4. 32

Question ID : 4410091312787

Option 1 ID : 4410095182856

Option 2 ID : 4410095182853

Option 3 ID : 4410095182854

Option 4 ID : 4410095182855

Status : Answered

Chosen Option : 3

Q.7 12 is related to 8 following a certain logic. Following the same logic, 52 is related to 48. To which of the following is 95 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 to/subtracting from/multiplying with 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. 88

☒ 2. 91

☒ 3. 92

☒ 4. 89

Question ID : 441009590398

Option 1 ID : 4410092316708

Option 2 ID : 4410092316706

Option 3 ID : 4410092316705

Option 4 ID : 4410092316707

Status : Answered

Chosen Option : 2

Q.8 Seven friends B, C, D, I, J, K and Q are sitting in a row facing north. Only I sits to the left of B. Only four people sit between I and K. Only Q sits between J and C and J is not an immediate neighbour of K. How many people sit to the left of D?

- Ans

1. Four
2. Six
3. Five
4. Zero

Question ID :	4410091313843
Option 1 ID :	4410095187073
Option 2 ID :	4410095187071
Option 3 ID :	4410095187072
Option 4 ID :	4410095187074
Status :	Answered
Chosen Option :	2

Q.9 Each of A, B, G, H, W, X and Y has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. Only three people have exams between A and Y. Only three people have exams between B and G. W has exam on some day before X and on some day after H. Only G has exam after Y. How many people have exams after W?

- Ans

1. Five
2. Three
3. Six
4. One

Question ID :	4410091313746
Option 1 ID :	4410095186685
Option 2 ID :	4410095186684
Option 3 ID :	4410095186686
Option 4 ID :	4410095186683
Status :	Answered
Chosen Option :	2

Q.10 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans

1. YDGM
2. VADK
3. BGJQ
4. PUXE

Question ID :	4410091313878
Option 1 ID :	4410095187211
Option 2 ID :	4410095187212
Option 3 ID :	4410095187214
Option 4 ID :	4410095187213
Status :	Answered
Chosen Option :	1

Q.1 Each of A, B, G, H, W, X and Y has an exam on a different day of a week starting from
1 Monday and ending on Sunday of the same week.
Only three people have exam between H and A. A has exam on the last day of the week.
W has exam on the second day after G. Y has exam immediately the day before X. B
does not have exam on Friday.
How many people have exams after B?

- Ans ☒ 1. Five
- ☒ 2. Six
- ☒ 3. One
- ☒ 4. Three

Question ID : 4410091313747

Option 1 ID : 4410095186689

Option 2 ID : 4410095186690

Option 3 ID : 4410095186687

Option 4 ID : 4410095186688

Status : Answered

Chosen Option : 2

Q.1 Select the pair that follows the same pattern as that followed by the two pairs given
2 below. Both pairs follow the same pattern.

DNX : GQA
FPZ : ISC

- Ans ☒ 1. QLW : TPZ
- ☒ 2. TUQ : PYT
- ☒ 3. HRB : KUE
- ☒ 4. CBA : ZED

Question ID : 441009787481

Option 1 ID : 4410093103926

Option 2 ID : 4410093103925

Option 3 ID : 4410093103923

Option 4 ID : 4410093103924

Status : Answered

Chosen Option : 3

Q.1 What should come in place of the question mark (?) in the given series?
3

23, 31, 41, 53, 67, ?

- Ans ☒ 1. 85
- ☒ 2. 83
- ☒ 3. 82
- ☒ 4. 81

Question ID : 441009605270

Option 1 ID : 4410092376198

Option 2 ID : 4410092376199

Option 3 ID : 4410092376197

Option 4 ID : 4410092376200

Status : Answered

Chosen Option : 2

Q.1 Refer to the given letter and symbol series and answer the question that follows.
4 Counting to be done from left to right only.
(Left) B R @ E K F * J % L M # Z W Y ^ \$ P T & K (Right)
How many such letters are there which are immediately followed by a symbol and also immediately preceded by a letter?¹⁷⁴⁹⁸

- Ans ☒ 1. None
- ☒ 2. Four
- ☒ 3. Five
- ☒ 4. Three

Question ID :	441009771534
Option 1 ID :	4410093040129
Option 2 ID :	4410093040130
Option 3 ID :	4410093040132
Option 4 ID :	4410093040131
Status :	Answered
Chosen Option :	3

Q.1 In a certain code language, 'ICED' is coded as '8174' and 'DUMP' is coded as '2136'.
5 What is the code for 'D' in the given code language?

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

Question ID :	441009771623
Option 1 ID :	4410093040488
Option 2 ID :	4410093040485
Option 3 ID :	4410093040487
Option 4 ID :	4410093040486
Status :	Answered
Chosen Option :	2

Q.1 Refer to the given number series and answer the question that follows. Counting to be
6 done from left to right only. All numbers are single-digit numbers.
(Left) 4 9 7 8 4 3 1 2 5 6 7 8 6 9 7 4 8 3 5 6 4 8 5 7 1 2 5 (Right)
How many such even digits are there, each of which is immediately preceded by an even digit and immediately followed by an odd digit?

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

Question ID :	441009781085
Option 1 ID :	4410093078345
Option 2 ID :	4410093078343
Option 3 ID :	4410093078344
Option 4 ID :	4410093078346
Status :	Answered
Chosen Option :	1

Q.1 If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '−', then what will come in place of the question mark (?) in the following equation?
174 A 3 C 15 B 5 D 98 A 2 C 16 B 8 A 2 C 233 = ?

- Ans ☒ 1. 381
- ☒ 2. 368
- ☒ 3. 332
- ☒ 4. 301

Question ID :	441009556419
Option 1 ID :	4410092180993
Option 2 ID :	4410092180992
Option 3 ID :	4410092180991
Option 4 ID :	4410092180990
Status :	Answered
Chosen Option :	1

Q.1 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
8 DMQ KHT RCW YXZ ? MNF

- Ans ☒ 1. FSC
- ☒ 2. FRC
- ☒ 3. GCG
- ☒ 4. GGC

Question ID :	441009756226
Option 1 ID :	4410092978900
Option 2 ID :	4410092978899
Option 3 ID :	4410092978898
Option 4 ID :	4410092978897
Status :	Answered
Chosen Option :	1

Q.1 126 is related to 262 following a certain logic. Following the same logic, 134 is related to 278. To which of the following is 146 related to, following the same logic?
9
(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 to/subtracting from/multiplying with 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. 298
- ☒ 2. 292
- ☒ 3. 306
- ☒ 4. 302

Question ID :	4410091312706
Option 1 ID :	4410095182530
Option 2 ID :	4410095182529
Option 3 ID :	4410095182532
Option 4 ID :	4410095182531
Status :	Answered
Chosen Option :	4

Q.2	Seven people, A, B, C, D, E, F and G, are sitting in a row, facing north.
0	Only 1 person sits to the left of D. Only 2 people sit between D and B. F sits immediately to the right of A. E sits immediately to the left of G. Only 1 person sits between B and A. How many people sit between D and F?
Ans	<div><div>✗ 1. 4</div><div>✓ 2. 1</div><div>✗ 3. 2</div><div>✗ 4. 3</div></div>

Question ID :	4410091313792
Option 1 ID :	4410095186870
Option 2 ID :	4410095186867
Option 3 ID :	4410095186868
Option 4 ID :	4410095186869
Status :	Answered
Chosen Option :	2

Q.2	If 'P' stands for '-', 'Q' stands for 'x', 'C' stands for '÷' and 'D' stands for '+', then what
1	will come in place of the question mark (?) in the following equation?
	9 D 42 C 7 Q 7 P 18 = ?
Ans	<div><div>✗ 1. 42</div><div>✗ 2. 39</div><div>✗ 3. 43</div><div>✓ 4. 33</div></div>

Question ID :	441009552443
Option 1 ID :	4410092165088
Option 2 ID :	4410092165087
Option 3 ID :	4410092165089
Option 4 ID :	4410092165086
Status :	Answered
Chosen Option :	4

Q.2	In a certain code language, 'EARN' is coded as '3148' and 'JACK' is coded as '8257'.
2	What is the code for 'A' in the given code language?
Ans	<div><div>✗ 1. 5</div><div>✓ 2. 8</div><div>✗ 3. 1</div><div>✗ 4. 2</div></div>

Question ID :	441009771625
Option 1 ID :	4410093040493
Option 2 ID :	4410093040495
Option 3 ID :	4410093040496
Option 4 ID :	4410093040494
Status :	Answered
Chosen Option :	2

Q.2 3 Seven people, B, D, E, F, P, Q and R, are sitting in a row, facing north. Only two people sit to the right of P. Only two people sit between P and D. Only two people sit between B and F. F sits to the immediate left of P. R sits to the immediate right of Q. Who sits at the third position from the left end of the row?

- Ans
- ☒ 1. D
 - ☒ 2. B
 - ☒ 3. E
 - ☒ 4. F

Question ID : 4410091313876
Option 1 ID : 4410095187204
Option 2 ID : 4410095187205
Option 3 ID : 4410095187203
Option 4 ID : 4410095187206
Status : Answered
Chosen Option : 3

Q.2 4 G is the brother of P. V is the wife of M. P is the brother of O. M is the father of G. How is V related to O?

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

Question ID : 4410091313967
Option 1 ID : 4410095187570
Option 2 ID : 4410095187568
Option 3 ID : 4410095187569
Option 4 ID : 4410095187567
Status : Answered
Chosen Option : 4

Q.2 5 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans
- ☒ 1. DG-HK
 - ☒ 2. MP-QT
 - ☒ 3. KN-OQ
 - ☒ 4. VY-ZC

Question ID : 4410091313801
Option 1 ID : 4410095186905
Option 2 ID : 4410095186903
Option 3 ID : 4410095186906
Option 4 ID : 4410095186904
Status : Answered
Chosen Option : 3

Q.2 Which of the given letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?

: BZX :: WUS : %

Ans ☒ 1. # = IGE , % = PNL

☒ 2. # = IGD , % = OMK

☒ 3. # = IGE , % = PMM

☒ 4. # = IIG , % = PNL

Question ID : 441009759064

Option 1 ID : 4410092990249

Option 2 ID : 4410092990252

Option 3 ID : 4410092990250

Option 4 ID : 4410092990251

Status : Answered

Chosen Option : 1

Q.2 Refer to the given number and symbol series and answer the question that follows.
7 Counting to be done from left to right only.

(Left) 2 * 3 6 7 \$ 4 9 % 3 & 3 5 4 # 8 9 3 ^ 7 8 6 (Right)

If all the numbers are dropped, which is the fourth term from the right end in the series?

Ans ☒ 1. %

☒ 2. *

☒ 3. #

☒ 4. \$

Question ID : 441009771518

Option 1 ID : 4410093040067

Option 2 ID : 4410093040065

Option 3 ID : 4410093040066

Option 4 ID : 4410093040068

Status : Answered

Chosen Option : 1

Q.2 What should come in place of the question mark (?) in the given series?
8

5 16 49 148 445 ?

Ans ☒ 1. 775

☒ 2. 1336

☒ 3. 556

☒ 4. 1035

Question ID : 4410091312776

Option 1 ID : 4410095182810

Option 2 ID : 4410095182811

Option 3 ID : 4410095182809

Option 4 ID : 4410095182812

Status : Answered

Chosen Option : 2

Q.2 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- Ans
- ☒ 1. J @ S W A
 - ☒ 2. L @ S W A
 - ☒ 3. L @ S W V
 - ☒ 4. L @ S M A

Question ID :	441009923291
Option 1 ID :	4410093647309
Option 2 ID :	4410093647308
Option 3 ID :	4410093647311
Option 4 ID :	4410093647310
Status :	Answered
Chosen Option :	2

Q.3 Each of A, B, C, D, E, F and G watch a movie on different days of a week starting from Monday and ending on Sunday of the same week. G watches the movie on Friday. Only two people watch the movie between G and C. Only three people watch the movie between B and C. Only three people watch the movie between A and D. A does not watch the movie on one of the days after G. F watches the movie on the day immediately after A. How many people watch the movie before F?

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

Question ID :	4410091313968
Option 1 ID :	4410095187572
Option 2 ID :	4410095187574
Option 3 ID :	4410095187571
Option 4 ID :	4410095187573
Status :	Answered
Chosen Option :	2

Q.1 Ranging by eye, through line ranger, through theodolite are examples of _____.

- Ans
- ☐ 1. optical ranging
 - ☐ 2. reciprocal ranging
 - ☒ 3. direct ranging
 - ☐ 4. indirect ranging

Question ID :	441009128169
Option 1 ID :	441009509297
Option 2 ID :	441009509298
Option 3 ID :	441009509295
Option 4 ID :	441009509296
Status :	Answered
Chosen Option :	1

Q.2 Which of the following statements best describes atmospheric pressure?

- Ans
- ☐ 1. It is the pressure exerted by a solid object due to its weight.
 - ☒ 2. It is the pressure exerted by the atmosphere on the surface of the Earth.
 - ☐ 3. It is the pressure inside a closed container.
 - ☐ 4. It is the pressure exerted by a fluid due to its motion.

Question ID :	441009200961
Option 1 ID :	441009791123
Option 2 ID :	441009791121
Option 3 ID :	441009791122
Option 4 ID :	441009791120
Status :	Answered
Chosen Option :	2

Q.3 The equivalent continuous noise level over a time period is denoted by:

- Ans
- ☐ 1. dBA
 - ☒ 2. Leq
 - ☐ 3. SPL
 - ☐ 4. Lmax

Question ID :	44100995498
Option 1 ID :	441009379951
Option 2 ID :	441009379949
Option 3 ID :	441009379950
Option 4 ID :	441009379948
Status :	Answered
Chosen Option :	2

Q.4 Select the option that is true regarding the following two statements labelled Assertion (A) and Reason (R).

Assertion (A): Sprinkler irrigation helps conserve water.
Reason (R): It supplies water directly to plant roots, minimising evaporation and runoff.

- Ans
- ✓ 1. A is true, but R is false.
 - ✗ 2. A is false, but R is true.
 - ✗ 3. Both A and R are true, and R is the correct explanation of A.
 - ✗ 4. Both A and R are true, but R is not the correct explanation of A.

Question ID :	441009102963
Option 1 ID :	441009409886
Option 2 ID :	441009409887
Option 3 ID :	441009409884
Option 4 ID :	441009409885
Status :	Answered
Chosen Option :	1

Q.5 In a gravity dam subjected only to hydrostatic water pressure, how is the normal stress typically distributed along the base?

- Ans
- ✓ 1. The normal stress is maximum compressive at the toe and minimum or tensile at the heel.
 - ✗ 2. The normal stress is maximum tensile at the centre and zero at both edges.
 - ✗ 3. The normal stress remains uniformly compressive across the entire base length.
 - ✗ 4. The shear stress is maximum near the base corners under water pressure alone.

Question ID :	441009226055
Option 1 ID :	441009885023
Option 2 ID :	441009885024
Option 3 ID :	441009885022
Option 4 ID :	441009885025
Status :	Answered
Chosen Option :	1

Q.6 How often should the Symons rain gauge be manually measured?

- Ans
- ✗ 1. Once a week
 - ✗ 2. Only after heavy rainfall
 - ✓ 3. Once a day at a fixed time
 - ✗ 4. Every hour

Question ID :	441009102869
Option 1 ID :	441009409490
Option 2 ID :	441009409492
Option 3 ID :	441009409491
Option 4 ID :	441009409489
Status :	Answered
Chosen Option :	3

Q.7 Calculate the cost of painting one coat over a coat of priming for 50m². Given the item rate of prime coat is ₹2,000/- per 100 m² and paint one coat is ₹6,500/- per 100 m². The given rate is inclusive of labour, material and contractor's profit.

Ans ☒ 1. ₹8,250

☒ 2. ₹6,250

☒ 3. ₹4,250

☒ 4. ₹2,250

Question ID : 441009102928

Option 1 ID : 441009409729

Option 2 ID : 441009409728

Option 3 ID : 441009409730

Option 4 ID : 441009409731

Status : Answered

Chosen Option : 3

Q.8 How is extra widening typically calculated for a curve on a highway?

Ans ☒ 1. By using a fixed percentage of the curve's radius

☒ 2. By reducing the curve's radius

☒ 3. By increasing the superelevation

☒ 4. By considering the design speed and vehicle dimensions

Question ID : 441009177235

Option 1 ID : 441009700802

Option 2 ID : 441009700805

Option 3 ID : 441009700804

Option 4 ID : 441009700803

Status : Answered

Chosen Option : 4

Q.9 Addition of overburden pressure to the net safe bearing capacity gives ____.

Ans ☒ 1. allowable bearing pressure

☒ 2. gross safe bearing capacity

☒ 3. safe bearing pressure

☒ 4. net ultimate bearing capacity

Question ID : 441009146978

Option 1 ID : 441009583726

Option 2 ID : 441009583725

Option 3 ID : 441009583728

Option 4 ID : 441009583727

Status : Answered

Chosen Option : 2

Q.1	The main purpose of lining an irrigation canal is to:
0	
Ans	<input checked="" type="checkbox"/> 1. support aquatic ecosystems
	<input checked="" type="checkbox"/> 2. enhance the water temperature
	<input checked="" type="checkbox"/> 3. increase water seepage into the surrounding soil
	<input checked="" type="checkbox"/> 4. minimise water seepage into the surrounding soil

Question ID :	441009103290
Option 1 ID :	441009411270
Option 2 ID :	441009411269
Option 3 ID :	441009411268
Option 4 ID :	441009411267
Status :	Answered
Chosen Option :	4

Q.1	How does waterlogging impact the plant growth in an agricultural land?
1	
Ans	<input checked="" type="checkbox"/> 1. Improves aeration and root growth
	<input checked="" type="checkbox"/> 2. Reduces oxygen availability and affects plant growth
	<input checked="" type="checkbox"/> 3. Increases soil nutrient content permanently
	<input checked="" type="checkbox"/> 4. Enhances microbial activity in the soil

Question ID :	441009105680
Option 1 ID :	441009420855
Option 2 ID :	441009420856
Option 3 ID :	441009420857
Option 4 ID :	441009420858
Status :	Answered
Chosen Option :	2

Q.1	_____ provision includes the foreseen expenditure for the coming financial year is assessed for the smooth execution of the project and planning of financing facility.
2	
Ans	<input checked="" type="checkbox"/> 1. Report
	<input checked="" type="checkbox"/> 2. Budget
	<input checked="" type="checkbox"/> 3. Estimate
	<input checked="" type="checkbox"/> 4. Grant

Question ID :	441009106794
Option 1 ID :	441009425218
Option 2 ID :	441009425216
Option 3 ID :	441009425215
Option 4 ID :	441009425217
Status :	Answered
Chosen Option :	2

Q.1 In a reciprocating pump, the _____ allow the water to flow only in one direction.
3

Ans ✓ 1. suction and delivery valves

✗ 2. suction and delivery pipes

✗ 3. piston and piston rod

✗ 4. connecting rod and crank

Question ID : 441009299619

Option 1 ID : 4410091165554

Option 2 ID : 4410091165555

Option 3 ID : 4410091165556

Option 4 ID : 4410091165557

Status : Answered

Chosen Option : 1

Q.1 Why is plywood often preferred over solid wood for door construction?
4

Ans ✗ 1. It requires more seasoning and moisture control before use.

✗ 2. It is denser and thus more soundproof.

✗ 3. It has a more natural and aesthetic grain pattern.

✓ 4. It has better resistance to warping and dimensional changes.

Question ID : 441009146833

Option 1 ID : 441009583149

Option 2 ID : 441009583148

Option 3 ID : 441009583147

Option 4 ID : 441009583146

Status : Answered

Chosen Option : 4

Q.1 The branch of science that deals with the behaviour of fluids at rest as well as in motion is called _____.
5

Ans ✗ 1. Kinematics

✓ 2. Fluid Mechanics

✗ 3. Hydraulics

✗ 4. Dynamics

Question ID : 441009200942

Option 1 ID : 441009791045

Option 2 ID : 441009791044

Option 3 ID : 441009791046

Option 4 ID : 441009791047

Status : Answered

Chosen Option : 2

Q.1	The effectiveness of a sound-insulating material is primarily measured by:
6	
Ans	<input checked="" type="checkbox"/> 1. water absorption
	<input checked="" type="checkbox"/> 2. NRC (Noise Reduction Coefficient)
	<input checked="" type="checkbox"/> 3. expansion coefficient
	<input checked="" type="checkbox"/> 4. thermal resistance

Question ID :	441009146949
Option 1 ID :	441009583610
Option 2 ID :	441009583611
Option 3 ID :	441009583613
Option 4 ID :	441009583612
Status :	Answered
Chosen Option :	2

Q.1

7

The below-mentioned form describes the grand total cost of R.C.C column with foundation in the _____.

Item No.	Name of Item and Details of Work	Quantity	Rate
1	Earthwork in excavation	3.2 cum	350 per cum
2	Cement concrete 1:2:4 in base with brick ballast	0.2 cum	3,000 per cum
3	R.C.C work 1:2:4 in footing excluding steel and its bending but including centering and shuttering and binding steel	2 cum	6,500 per cum
4	R.C.C work 1:2:4 in column above G.L. excluding steel and its bending but including centering and shuttering and binding steel	0.3 cum	6,000 per cum
5	Steel reinforcement bars including bending	116 kg	1,000 per kg
Add 5% for contingencies and work charged establishment			
Grand Total			

Ans	<input checked="" type="checkbox"/> 1. measurement sheet
	<input checked="" type="checkbox"/> 2. face sheet
	<input checked="" type="checkbox"/> 3. abstract sheet
	<input checked="" type="checkbox"/> 4. measurement book

Question ID :	441009115013
Option 1 ID :	441009457457
Option 2 ID :	441009457459
Option 3 ID :	441009457458
Option 4 ID :	441009457460
Status :	Answered
Chosen Option :	3

Q.1	Which type of glass is used in automobile windshields for safety?
8	
Ans	<input checked="" type="checkbox"/> 1. Soda-lime glass
	<input checked="" type="checkbox"/> 2. Laminated glass
	<input checked="" type="checkbox"/> 3. Wired glass
	<input checked="" type="checkbox"/> 4. Toughened glass

Question ID :	441009146863
Option 1 ID :	441009583266
Option 2 ID :	441009583267
Option 3 ID :	441009583269
Option 4 ID :	441009583268
Status :	Answered
Chosen Option :	4

Q.1	Calculate the cost of tile required for flooring of a room sized 6 m x 5 m. Given the cost of tile flooring is ₹36 per m ² . Assume the tile wastage is 10%.
9	
Ans	<input checked="" type="checkbox"/> 1. ₹1,188
	<input checked="" type="checkbox"/> 2. ₹999
	<input checked="" type="checkbox"/> 3. ₹1,080
	<input checked="" type="checkbox"/> 4. ₹990

Question ID :	441009102938
Option 1 ID :	441009409779
Option 2 ID :	441009409778
Option 3 ID :	441009409776
Option 4 ID :	441009409777
Status :	Answered
Chosen Option :	1

Q.2	Which of the following best describes axial loading in structural members?
0	
Ans	<input checked="" type="checkbox"/> 1. Load causing torsion in the member
	<input checked="" type="checkbox"/> 2. Load acting perpendicular to the axis of the member
	<input checked="" type="checkbox"/> 3. Load acting along the longitudinal axis of the member
	<input checked="" type="checkbox"/> 4. Load applied eccentrically to the axis

Question ID :	441009225578
Option 1 ID :	441009883174
Option 2 ID :	441009883171
Option 3 ID :	441009883173
Option 4 ID :	441009883172
Status :	Answered
Chosen Option :	3

Q.2
1 How does lateral bracing affect the effective length of a steel compression member?

Ans ✓ 1. It reduces the effective length and increases buckling resistance.

✗ 2. It increases the effective length factor K.

✗ 3. It changes the member's material properties.

✗ 4. It has no impact on the effective length.

Question ID : 441009157624

Option 1 ID : 441009625660

Option 2 ID : 441009625659

Option 3 ID : 441009625662

Option 4 ID : 441009625661

Status : Answered

Chosen Option : 1

Q.2
2 Which of the following statements is true about curing and strength gain?

Ans ✗ 1. Curing is unnecessary in humid climates

✗ 2. Concrete attains 100% strength in 7 days of curing

✓ 3. Proper curing improves strength over time

✗ 4. Strength gain stops after 28 days of curing

Question ID : 441009128313

Option 1 ID : 441009509869

Option 2 ID : 441009509866

Option 3 ID : 441009509868

Option 4 ID : 441009509867

Status : Answered

Chosen Option : 3

Q.2
3 Calculate the rough cost estimate of a commercial building with a plinth area of 1,000 m². The height of each storey is 3 m. The commercial building has G+2 floors, and the cubical content rate of the building is ₹4,500/m³.

Ans ✗ 1. ₹4,85,00,000

✓ 2. ₹4,05,00,000

✗ 3. ₹5,05,00,000

✗ 4. ₹5,85,00,000

Question ID : 441009115115

Option 1 ID : 441009457892

Option 2 ID : 441009457889

Option 3 ID : 441009457890

Option 4 ID : 441009457891

Status : Answered

Chosen Option : 2

Q.2	Which of the following is a reliable year-round source of water in arid regions?
4	
Ans	✓ 1. Groundwater
	✗ 2. Reservoir
	✗ 3. River
	✗ 4. Rainwater harvesting tank

Question ID :	441009118200
Option 1 ID :	441009469962
Option 2 ID :	441009469961
Option 3 ID :	441009469960
Option 4 ID :	441009469963
Status :	Not Answered
Chosen Option :	--

Q.2	For RC walls expected to undergo moment reversal during seismic or wind actions, what reinforcement detailing is appropriate?
5	
Ans	✗ 1. Provide reinforcement primarily in mid-span region
	✗ 2. Provide maximum reinforcement on one face only
	✓ 3. Equal reinforcement provided at both sides of the section
	✗ 4. Reinforce only the anticipated tension edge

Question ID :	441009157799
Option 1 ID :	441009626219
Option 2 ID :	441009626220
Option 3 ID :	441009626218
Option 4 ID :	441009626217
Status :	Answered
Chosen Option :	3

Q.2	Which of the following compounds is responsible for causing temporary hardness in water?
6	
Ans	✓ 1. Magnesium bicarbonate
	✗ 2. Calcium chloride
	✗ 3. Iron salts
	✗ 4. Magnesium sulphate

Question ID :	441009118427
Option 1 ID :	441009470869
Option 2 ID :	441009470868
Option 3 ID :	441009470871
Option 4 ID :	441009470870
Status :	Answered
Chosen Option :	1

Q.2 The device used to measure pressure by balancing a column of fluid by the same or
7 another column of the fluid is called a/an _____.

- Ans ☒ 1. Orificemeter
- ☒ 2. Manometer
- ☒ 3. Triangular notch
- ☒ 4. Venturimeter

Question ID : 441009200978

Option 1 ID : 441009791190

Option 2 ID : 441009791189

Option 3 ID : 441009791191

Option 4 ID : 441009791188

Status : Answered

Chosen Option : 2

Q.2 Identify the correct pair with a similar relationship.

8

IRC 44 : Indian Road Concrete Standards :: DOE : _____.

- Ans ☒ 1. Eurocode
- ☒ 2. British Mix Design Standard
- ☒ 3. ASTM Standard
- ☒ 4. Indian Standard Mix Design

Question ID : 441009128237

Option 1 ID : 441009509567

Option 2 ID : 441009509568

Option 3 ID : 441009509569

Option 4 ID : 441009509570

Status : Not Answered

Chosen Option : --

Q.2 A vertical back is 10 m high. It retains two different soils, from 0 to 5 m depth ($c = 0$, $\phi =$
9 30° , and $\gamma = 18 \text{ kN/m}^3$) and from 5 m to 10 m depth ($c = 0$, $\phi = 30^\circ$, and $\gamma = 20 \text{ kN/m}^3$). Find
the ratio of passive pressures just above and below the soil at 5 m depth.

- Ans ☒ 1. 1 : 2
- ☒ 2. 7 : 9
- ☒ 3. 9 : 10
- ☒ 4. 1 : 1

Question ID : 441009142761

Option 1 ID : 441009567156

Option 2 ID : 441009567157

Option 3 ID : 441009567154

Option 4 ID : 441009567155

Status : Answered

Chosen Option : 3

Q.3 In a sand replacement test, the mass of excavated soil from a hole in field is 624 g and the unit weight of standard sand used for the test is 2 g/cc. The weight of sand filling the hole, in the field, is 600 g. What will be the unit weight of soil excavated from the hole?

- Ans
- ☒ 1. 1.5 g/cc
 - ☒ 2. 2.5 g/cc
 - ☒ 3. 1.95 g/cc
 - ☒ 4. 2.08 g/cc

Question ID : 441009121309

Option 1 ID : 441009482236

Option 2 ID : 441009482237

Option 3 ID : 441009482235

Option 4 ID : 441009482234

Status : Answered

Chosen Option : 4

Q.3 In an open channel flow, when the Froude number is greater than one, the flow is said to be ____.

- Ans
- ☒ 1. Uniform flow
 - ☒ 2. Steady flow
 - ☒ 3. Super critical flow
 - ☒ 4. Sub critical flow

Question ID : 441009265460

Option 1 ID : 4410091031698

Option 2 ID : 4410091031700

Option 3 ID : 4410091031699

Option 4 ID : 4410091031697

Status : Answered

Chosen Option : 3

Q.3 Which of the following improves the burning quality and colour of bricks?

- Ans
- ☒ 1. Silica
 - ☒ 2. Lime
 - ☒ 3. Iron oxide
 - ☒ 4. Alumina

Question ID : 441009146045

Option 1 ID : 441009580051

Option 2 ID : 441009580050

Option 3 ID : 441009580052

Option 4 ID : 441009580053

Status : Answered

Chosen Option : 3

Q.3 A rectangular channel of width 4 m has a bed slope of 1 in 1000. Find the maximum discharge through the channel. Take value of Chezy's constant $C = 50$.

Ans

✗ 1. $Q = 100 \times \sqrt{\frac{1}{1000}}$

✗ 2. $Q = 300 \times \sqrt{\frac{1}{1000}}$

✗ 3. $Q = 200 \times \sqrt{\frac{1}{1000}}$

✓ 4. $Q = 400 \times \sqrt{\frac{1}{1000}}$

Question ID : 441009265390

Option 1 ID : 4410091031417

Option 2 ID : 4410091031418

Option 3 ID : 4410091031416

Option 4 ID : 4410091031419

Status : Answered

Chosen Option : 1

Q.3 Calculate the approximate estimate for a bridge with three spans, each 40 metres long, at a rate of ₹80,000 per running metre.

Ans

✗ 1. ₹75,00,000

✗ 2. ₹82,50,000

✗ 3. ₹45,50,000

✓ 4. ₹96,00,000

Question ID : 441009115946

Option 1 ID : 441009461191

Option 2 ID : 441009461190

Option 3 ID : 441009461188

Option 4 ID : 441009461189

Status : Answered

Chosen Option : 4

Q.3 A divide wall in a barrage is constructed to:

Ans

✗ 1. separate the canal and river flow

✗ 2. increase the flow velocity of water

✗ 3. provide structural support to the barrage

✓ 4. reduce turbulence and scouring on the upstream of head regulator

Question ID : 441009103255

Option 1 ID : 441009411119

Option 2 ID : 441009411122

Option 3 ID : 441009411120

Option 4 ID : 441009411121

Status : Answered

Chosen Option : 1

Q.3 6	In the flexural analysis of singly reinforced flanged sections such as T-beams, under which specific condition is the concrete in the flange considered effective in resisting compressive stresses?
Ans	<div><div>✓</div>1. Flange positioned in the compression zone of the section during bending</div> <div><div>✗</div>2. Flange having tensile strength greater than that of the web concrete</div> <div><div>✗</div>3. Reinforcement provided within the flange parallel to the slab plane</div> <div><div>✗</div>4. Flange located entirely in the tension zone of the section</div>

Question ID :	441009157830
Option 1 ID :	441009626303
Option 2 ID :	441009626304
Option 3 ID :	441009626305
Option 4 ID :	441009626302
Status :	Not Answered
Chosen Option :	--

Q.3 7	The flexural stiffness of a beam is given by:
Ans	<div><div>✗</div>1. Modulus of elasticity (E) × Area (A)</div> <div><div>✓</div>2. Modulus of elasticity (E) × Moment of inertia (I)</div> <div><div>✗</div>3. Load (P) × Length (L)</div> <div><div>✗</div>4. Moment of inertia (I) / Modulus of elasticity (E)</div>

Question ID :	441009226167
Option 1 ID :	441009885491
Option 2 ID :	441009885492
Option 3 ID :	441009885490
Option 4 ID :	441009885493
Status :	Answered
Chosen Option :	2

Q.3 8	Which of the following statements is true about the method of curve setting by deflection distances?
Ans	<div><div>✗</div>1. It is employed for setting small curves only.</div> <div><div>✓</div>2. It has a defect that the error in fixing point is carried forward.</div> <div><div>✗</div>3. It is an angular method of curve setting.</div> <div><div>✗</div>4. It can be employed only when a theodolite is available.</div>

Question ID :	441009128553
Option 1 ID :	441009510829
Option 2 ID :	441009510830
Option 3 ID :	441009510827
Option 4 ID :	441009510828
Status :	Not Answered
Chosen Option :	--

Q.3 In an open channel flow, the sudden transition in the flow from a super critical state to a sub-critical state is known as ____.

- Ans
- ☒ 1. critical velocity
 - ☒ 2. hydraulic jump
 - ☒ 3. specific energy
 - ☒ 4. critical depth

Question ID : 441009299933
Option 1 ID : 4410091166835
Option 2 ID : 4410091166833
Option 3 ID : 4410091166832
Option 4 ID : 4410091166834
Status : Answered
Chosen Option : 2

Q.4 Which parameter is the best indicator of organic pollution in water bodies?

- Ans
- ☒ 1. Dissolved Oxygen (DO)
 - ☒ 2. Biochemical Oxygen Demand (BOD)
 - ☒ 3. Total Dissolved Solids (TDS)
 - ☒ 4. Chemical Oxygen Demand (COD)

Question ID : 44100995504
Option 1 ID : 441009379974
Option 2 ID : 441009379975
Option 3 ID : 441009379972
Option 4 ID : 441009379973
Status : Answered
Chosen Option : 2

Q.4 Which of the following types of columns use concrete, steel reinforcement and structural steel sections together to possess greater load carrying capacity?

- Ans
- ☒ 1. Composite columns
 - ☒ 2. Spiral columns
 - ☒ 3. Tied columns
 - ☒ 4. Prestressed columns

Question ID : 441009157767
Option 1 ID : 441009626119
Option 2 ID : 441009626118
Option 3 ID : 441009626117
Option 4 ID : 441009626120
Status : Answered
Chosen Option : 4

Q.4 2 Why does a latticed column have lower buckling strength than a solid column with the same cross-sectional area and slenderness ratio?

- Ans ☒ 1. The buckling strength reduces due to excessive torsional deformation caused by lateral restraints.
- ☒ 2. The lattice structure increases material weight, leading to instability.
- ☒ 3. The individual components in the built-up column experience higher compressive stresses.
- ☒ 4. The lacing system introduces additional secondary stresses.

Question ID :	441009157635
Option 1 ID :	441009625705
Option 2 ID :	441009625704
Option 3 ID :	441009625706
Option 4 ID :	441009625703
Status :	Answered
Chosen Option :	3

Q.4 3 If a concrete cube fails at 28 days with strength below the required value as per IS 456:2000, what is the next step?

- Ans ☒ 1. A core test or rebound hammer test is performed
- ☒ 2. Additional curing is done
- ☒ 3. The structure is rejected
- ☒ 4. Demolition of the structure

Question ID :	441009128263
Option 1 ID :	441009509672
Option 2 ID :	441009509671
Option 3 ID :	441009509670
Option 4 ID :	441009509673
Status :	Answered
Chosen Option :	3

Q.4 4 What deductions are made for openings of more than 0.5 m² and less than 3 m² from each wall face in the computation of quantities of painting of surface in building if the width of the door frame is the same as the thickness of the wall?

- Ans ☒ 1. No deduction
- ☒ 2. Quater the thickness of wall deduction
- ☒ 3. Full deduction
- ☒ 4. Half the thickness of wall deduction

Question ID :	441009115096
Option 1 ID :	441009457802
Option 2 ID :	441009457804
Option 3 ID :	441009457801
Option 4 ID :	441009457803
Status :	Answered
Chosen Option :	4

Q.4	The reclamation of waterlogged land is mainly done by:
5	
Ans	<input checked="" type="checkbox"/> 1. increasing irrigation supply
	<input checked="" type="checkbox"/> 2. providing an effective drainage system
	<input checked="" type="checkbox"/> 3. compacting the soil
	<input checked="" type="checkbox"/> 4. reducing the soil organic matter

Question ID :	441009105670
Option 1 ID :	441009420807
Option 2 ID :	441009420808
Option 3 ID :	441009420809
Option 4 ID :	441009420810
Status :	Answered
Chosen Option :	2

Q.4	The viscosity and unit weight of the percolating fluid are reduced to 50% and 50%, respectively. If other things remain constant, the coefficient of permeability:
6	
Ans	<input checked="" type="checkbox"/> 1. increases by 50%
	<input checked="" type="checkbox"/> 2. decreases by 50%
	<input checked="" type="checkbox"/> 3. increases by 25%
	<input checked="" type="checkbox"/> 4. remains the same

Question ID :	441009139820
Option 1 ID :	441009555518
Option 2 ID :	441009555519
Option 3 ID :	441009555520
Option 4 ID :	441009555517
Status :	Answered
Chosen Option :	1

Q.4	In a symmetrical (both horizontal and vertical direction) I-section beam, the neutral axis passes:
7	
Ans	<input checked="" type="checkbox"/> 1. through the bottom flange of the section
	<input checked="" type="checkbox"/> 2. through the top flange of the section
	<input checked="" type="checkbox"/> 3. through the centroid of the section
	<input checked="" type="checkbox"/> 4. in an oblique plane to the horizontal axis (parallel to the direction of flange width)

Question ID :	441009223954
Option 1 ID :	441009877099
Option 2 ID :	441009877098
Option 3 ID :	441009877100
Option 4 ID :	441009877101
Status :	Answered
Chosen Option :	3

Q.4 What is the primary function of the filtration unit in a conventional water treatment plant?

- Ans
- ☒ 1. Adjust the pH to neutral
- ☒ 2. Remove colour from water
- ☒ 3. Remove suspended solids and colloidal impurities
- ☒ 4. Eliminate dissolved gases like CO₂

Question ID :	441009118387
Option 1 ID :	441009470711
Option 2 ID :	441009470708
Option 3 ID :	441009470710
Option 4 ID :	441009470709
Status :	Answered
Chosen Option :	3

Q.4 Which of the following is a compensating error?

- Ans
- ☒ 1. Tape not stretched horizontally and error due to sag
- ☒ 2. Variation in pull and error in marking tape lengths
- ☒ 3. Error due to temperature and incorrect counting of tape lengths
- ☒ 4. Incorrect length of tape and bad ranging

Question ID :	441009139771
Option 1 ID :	441009555324
Option 2 ID :	441009555322
Option 3 ID :	441009555323
Option 4 ID :	441009555321
Status :	Not Answered
Chosen Option :	--

Q.5 Identify the correct statements about the fixed hair method of stadia tacheometry from the following.

Statement I: A stadia diaphragm having stadia wires at constant distance apart is used.
Statement II: Readings on the staff corresponding to all the three wires are taken.
Statement III: Staff intercept is independent of the distance of the staff from the instrument.

- Ans
- ☒ 1. Statements II and III only.
- ☒ 2. Statement II only.
- ☒ 3. Statements I and II only.
- ☒ 4. Statement III only.

Question ID :	441009128530
Option 1 ID :	441009510736
Option 2 ID :	441009510737
Option 3 ID :	441009510735
Option 4 ID :	441009510738
Status :	Answered
Chosen Option :	3

Q.5 Which of the following surface textures of fine aggregates provides the best workability in concrete?

- Ans
- ☒ 1. Porous
 - ☒ 2. Smooth
 - ☒ 3. Rough
 - ☒ 4. Granular

Question ID : 441009125408
Option 1 ID : 441009498488
Option 2 ID : 441009498486
Option 3 ID : 441009498487
Option 4 ID : 441009498489
Status : Answered
Chosen Option : 2

Q.5 Galvanized Iron (GI) pipes are most suitable for which type of water distribution use?

- Ans
- ☒ 1. Underground mains
 - ☒ 2. Raw water transportation
 - ☒ 3. Long-distance conveyance
 - ☒ 4. Low-pressure domestic supply

Question ID : 441009118435
Option 1 ID : 441009470902
Option 2 ID : 441009470903
Option 3 ID : 441009470900
Option 4 ID : 441009470901
Status : Not Answered
Chosen Option : --

Q.5 A modified form of the U-tube manometer, in which a shallow reservoir having a large cross-sectional area (about 100 times) compared with the area of the tube is connected to one limb of the manometer, is known as:

- Ans
- ☒ 1. single column manometer
 - ☒ 2. multitude manometer
 - ☒ 3. inverted U-tube manometer
 - ☒ 4. differential manometer

Question ID : 441009200981
Option 1 ID : 441009791200
Option 2 ID : 441009791203
Option 3 ID : 441009791202
Option 4 ID : 441009791201
Status : Answered
Chosen Option : 2

Q.5 Which of the following best illustrates the scope of traffic engineering?
4

- Ans ☒ 1. Measuring road strength and durability
- ☒ 2. Calculating vehicle emissions
- ☒ 3. Planning the elevation of roads
- ☒ 4. Optimising traffic movement and safety

Question ID : 441009225280

Option 1 ID : 441009881986

Option 2 ID : 441009881989

Option 3 ID : 441009881988

Option 4 ID : 441009881987

Status : Answered

Chosen Option : 4

Q.5 In a hilly slope, the water is flowing through the soil in the downward direction. The force of flowing water will:
5

- Ans ☒ 1. increase the stability of slope
- ☒ 2. decrease the pore water pressure
- ☒ 3. not affect the slope stability
- ☒ 4. decrease the stability of slope

Question ID : 441009140192

Option 1 ID : 441009556964

Option 2 ID : 441009556967

Option 3 ID : 441009556966

Option 4 ID : 441009556965

Status : Answered

Chosen Option : 4

Q.5 In a cantilever RCC beam where the compression zone is NOT laterally supported, and the code-prescribed slenderness limits for lateral restraint are exceeded, which structural condition is most likely to govern the flexural capacity of the beam?
6

- Ans ☒ 1. Development length failure at the fixed end
- ☒ 2. Reversal of stress
- ☒ 3. Shear cracking near the support
- ☒ 4. Critical moment M_{cr} due to lateral-torsional instability

Question ID : 441009157826

Option 1 ID : 441009626286

Option 2 ID : 441009626289

Option 3 ID : 441009626287

Option 4 ID : 441009626288

Status : Answered

Chosen Option : 4

Q.5	Which of the following is a hydraulic requirement for locating intake structures?
7	
Ans	✓ 1. Located at a point with steady and adequate flow
	✗ 2. Located where water pressure is minimum
	✗ 3. Close to pump house
	✗ 4. Located far from the population

Question ID :	441009118212
Option 1 ID :	441009470010
Option 2 ID :	441009470009
Option 3 ID :	441009470008
Option 4 ID :	441009470011
Status :	Answered
Chosen Option :	1

Q.5	Which formula is commonly used to estimate fire demand (quantity of water in litres per minute)?
8	
Ans	✗ 1. Rational method
	✗ 2. Population ratio method
	✓ 3. Kuichling's formula
	✗ 4. Darcy's equation

Question ID :	441009118232
Option 1 ID :	441009470091
Option 2 ID :	441009470088
Option 3 ID :	441009470089
Option 4 ID :	441009470090
Status :	Answered
Chosen Option :	1

Q.5	Why is the 0.2% offset yield method used to determine the yield point for high-strength steel tension members?
9	
Ans	✗ 1. Because their elastic stress-strain curve remains constant beyond the initial yielding stage
	✗ 2. Because their strain continues to increase linearly even after reaching the elastic limit
	✓ 3. Because high-strength steel does not exhibit a distinct yield point and yield plateau
	✗ 4. Because their stress-strain curve deviates significantly from the engineering stress definition

Question ID :	441009157591
Option 1 ID :	441009625530
Option 2 ID :	441009625529
Option 3 ID :	441009625527
Option 4 ID :	441009625528
Status :	Answered
Chosen Option :	4

Q.6	Which of the following can cause low strength results in concrete testing?
0	
Ans	<input checked="" type="checkbox"/> 1. Higher cement content
	<input checked="" type="checkbox"/> 2. Improper curing conditions
	<input checked="" type="checkbox"/> 3. Increased fineness of cement
	<input checked="" type="checkbox"/> 4. Low water-cement ratio

Question ID :	441009128196
Option 1 ID :	441009509404
Option 2 ID :	441009509405
Option 3 ID :	441009509403
Option 4 ID :	441009509406
Status :	Answered
Chosen Option :	2

Q.6	In fluids, hydrostatic forces deal with ____.
1	
Ans	<input checked="" type="checkbox"/> 1. fluids moving under external pressure
	<input checked="" type="checkbox"/> 2. compressible fluid flow
	<input checked="" type="checkbox"/> 3. fluids at rest
	<input checked="" type="checkbox"/> 4. motion of fluids

Question ID :	441009200949
Option 1 ID :	441009791074
Option 2 ID :	441009791075
Option 3 ID :	441009791073
Option 4 ID :	441009791072
Status :	Answered
Chosen Option :	3

Q.6	How is the stress distributed at the base cross-section of a circular chimney subjected to wind pressure (causing bending)?
2	
Ans	<input checked="" type="checkbox"/> 1. Uniform compressive stress across the entire base of the chimney
	<input checked="" type="checkbox"/> 2. Maximum shear stress at the centre and zero stress on the edges
	<input checked="" type="checkbox"/> 3. Maximum compressive stress on the windward edge and tensile stress on the leeward edge
	<input checked="" type="checkbox"/> 4. Zero stress across the base due to wind pressure

Question ID :	441009226014
Option 1 ID :	441009884899
Option 2 ID :	441009884902
Option 3 ID :	441009884900
Option 4 ID :	441009884901
Status :	Not Answered
Chosen Option :	--

Q.6	The shape of a bending moment diagram under UDL is:
3	
Ans	✓ 1. parabolic
	✗ 2. triangular
	✗ 3. constant
	✗ 4. linear

Question ID :	441009224099
Option 1 ID :	441009877683
Option 2 ID :	441009877685
Option 3 ID :	441009877684
Option 4 ID :	441009877682
Status :	Answered
Chosen Option :	1

Q.6	Which test is used to determine the temperature at which bitumen softens?
4	
Ans	✓ 1. Softening point test
	✗ 2. Ductility test
	✗ 3. Viscosity test
	✗ 4. Penetration test

Question ID :	441009177249
Option 1 ID :	441009700860
Option 2 ID :	441009700858
Option 3 ID :	441009700861
Option 4 ID :	441009700859
Status :	Answered
Chosen Option :	1

Q.6	Which non-destructive test uses penetration probes to estimate concrete strength?
5	
Ans	✓ 1. Windsor Probe Test
	✗ 2. Ultrasonic Pulse Velocity (UPV) Test
	✗ 3. Rebound Hammer Test
	✗ 4. Cover Meter Test

Question ID :	441009128293
Option 1 ID :	441009509787
Option 2 ID :	441009509786
Option 3 ID :	441009509788
Option 4 ID :	441009509789
Status :	Answered
Chosen Option :	1

Q.6	Which geometric and structural conditions are most directly associated with an increase in the effective flange width of a T-beam as per the analysis of flanged sections?
6	
Ans	<input checked="" type="checkbox"/> 1. Increased span length, larger web width and greater flange thickness
	<input checked="" type="checkbox"/> 2. Shorter span combined with increased reinforcement covers
	<input checked="" type="checkbox"/> 3. Application of concentrated point loads at midspan
	<input checked="" type="checkbox"/> 4. Shorter span length, narrower web and reduced flange thickness

Question ID :	441009157833
Option 1 ID :	441009626315
Option 2 ID :	441009626316
Option 3 ID :	441009626317
Option 4 ID :	441009626314
Status :	Answered
Chosen Option :	4

Q.6	Laminated boards are made by:
7	
Ans	<input checked="" type="checkbox"/> 1. bonding multiple veneer layers under pressure with resins
	<input checked="" type="checkbox"/> 2. mixing cement and sawdust
	<input checked="" type="checkbox"/> 3. polishing wood surfaces only
	<input checked="" type="checkbox"/> 4. gluing wood strips in parallel

Question ID :	441009146853
Option 1 ID :	441009583227
Option 2 ID :	441009583228
Option 3 ID :	441009583229
Option 4 ID :	441009583226
Status :	Answered
Chosen Option :	1

Q.6	Water absorption test of bricks in the field is done by:
8	
Ans	<input checked="" type="checkbox"/> 1. boiling the brick
	<input checked="" type="checkbox"/> 2. weighing dry and wet brick after soaking in water for 24 hours
	<input checked="" type="checkbox"/> 3. immersing in lime solution
	<input checked="" type="checkbox"/> 4. heating the brick at 700°C

Question ID :	441009146092
Option 1 ID :	441009580238
Option 2 ID :	441009580239
Option 3 ID :	441009580241
Option 4 ID :	441009580240
Status :	Answered
Chosen Option :	2

Q.6 9	Which of the following fibre types is used to resist explosive spalling in concrete during fire?
Ans	✓ 1. Polypropylene fibre
	✗ 2. Nylon fibre
	✗ 3. Carbon fibre
	✗ 4. Jute fibre

Question ID :	441009146957
Option 1 ID :	441009583643
Option 2 ID :	441009583644
Option 3 ID :	441009583645
Option 4 ID :	441009583642
Status :	Answered
Chosen Option :	3

Q.7 0	Which of the following statements correctly describes the effect of eccentric loading (single eccentricity) on a structural member?
Ans	✓ 1. Eccentric loading results in both axial and bending stresses due to the offset from the centroidal axis.
	✗ 2. Eccentric loading induces only axial stress in the member.
	✗ 3. Axial and eccentric loadings produce the same stress distribution in the member.
	✗ 4. Eccentric loading causes bending stress but no axial stress.

Question ID :	441009225601
Option 1 ID :	441009883265
Option 2 ID :	441009883263
Option 3 ID :	441009883266
Option 4 ID :	441009883264
Status :	Answered
Chosen Option :	1

Q.7 1	Identify the type of rail predominantly used in Indian Railways today.
Ans	✗ 1. Fish Belly Rail
	✗ 2. Bull Headed Rail
	✓ 3. Flat Footed Rail
	✗ 4. Double Headed Rail

Question ID :	441009177310
Option 1 ID :	441009701101
Option 2 ID :	441009701098
Option 3 ID :	441009701100
Option 4 ID :	441009701099
Status :	Answered
Chosen Option :	3

Q.7 Which method of valuation is adopted when the rental income is not available and only the sale price of the property is available?

- Ans
- ☒ 1. Valuation based on profit
 - ☒ 2. Direct comparison with the capital value
 - ☒ 3. Rental method of valuation
 - ☒ 4. Depreciation method of valuation

Question ID : 44100991685
Option 1 ID : 441009364511
Option 2 ID : 441009364512
Option 3 ID : 441009364510
Option 4 ID : 441009364513
Status : Not Answered
Chosen Option : --

Q.7 What is the typical composition of a flexible pavement from bottom to top?

- Ans
- ☒ 1. Sub-base → Wearing course → Subgrade
 - ☒ 2. Surface course → Sub-base → Subgrade
 - ☒ 3. Wearing course → Subgrade → Base course
 - ☒ 4. Subgrade → Base course → Surface course

Question ID : 441009177259
Option 1 ID : 441009700896
Option 2 ID : 441009700895
Option 3 ID : 441009700894
Option 4 ID : 441009700897
Status : Answered
Chosen Option : 4

Q.7 Which of the following type of EDM (Electronic Distance Measurement) unit comes under long-range instruments?

- Ans
- ☒ 1. Visible light instruments
 - ☒ 2. Infrared instruments
 - ☒ 3. Ultraviolet instruments
 - ☒ 4. Microwave instruments

Question ID : 441009128572
Option 1 ID : 441009510904
Option 2 ID : 441009510905
Option 3 ID : 441009510906
Option 4 ID : 441009510903
Status : Answered
Chosen Option : 2

Q.7 5	In tacheometric surveying using the fixed hair method, the horizontal distance to the staff is calculated using a distance equation that includes two constants. What are these two constants?
Ans	<input checked="" type="checkbox"/> 1. Stadia interval factor, multiplying constant
	<input checked="" type="checkbox"/> 2. Additive constant, stadia intercept
	<input checked="" type="checkbox"/> 3. Multiplying constant, stadia intercept
	<input checked="" type="checkbox"/> 4. Stadia interval factor, additive constant

Question ID :	441009128521
Option 1 ID :	441009510700
Option 2 ID :	441009510702
Option 3 ID :	441009510701
Option 4 ID :	441009510699
Status :	Answered
Chosen Option :	4

Q.7 6	Which of the following statements is true regarding the polar moment of inertia of a circular lamina?
Ans	<input checked="" type="checkbox"/> 1. It is the sum of moments of inertia about two perpendicular diameters.
	<input checked="" type="checkbox"/> 2. It is mostly considered during the bending analysis of beams.
	<input checked="" type="checkbox"/> 3. It is always greater than the mass moment of inertia for solids.
	<input checked="" type="checkbox"/> 4. It is commonly used to estimate linear deflection in shafts.

Question ID :	441009223981
Option 1 ID :	441009877211
Option 2 ID :	441009877212
Option 3 ID :	441009877213
Option 4 ID :	441009877210
Status :	Answered
Chosen Option :	1

Q.7 7	The type of soil compacted by a roller having many round or rectangular projections attached to a steel drum is:
Ans	<input checked="" type="checkbox"/> 1. clayey soil
	<input checked="" type="checkbox"/> 2. silty soil
	<input checked="" type="checkbox"/> 3. gravel soil
	<input checked="" type="checkbox"/> 4. sandy soil

Question ID :	441009146900
Option 1 ID :	441009583414
Option 2 ID :	441009583417
Option 3 ID :	441009583416
Option 4 ID :	441009583415
Status :	Answered
Chosen Option :	1

Q.7	The moment of inertia of a circular lamina increases:
8	
Ans	<input checked="" type="checkbox"/> 1. quadratically with radius
	<input checked="" type="checkbox"/> 2. cubically with radius
	<input checked="" type="checkbox"/> 3. linearly with radius
	<input checked="" type="checkbox"/> 4. to the fourth power of radius

Question ID :	441009223948
Option 1 ID :	441009877075
Option 2 ID :	441009877076
Option 3 ID :	441009877074
Option 4 ID :	441009877077
Status :	Answered
Chosen Option :	4

Q.7	Identify the INCORRECT statement about a diagonal scale.
9	
Ans	<input checked="" type="checkbox"/> 1. It can be used for FPS system.
	<input checked="" type="checkbox"/> 2. It can be used for CGS system.
	<input checked="" type="checkbox"/> 3. It can measure two dimensions only
	<input checked="" type="checkbox"/> 4. It can measure three dimensions.

Question ID :	441009128164
Option 1 ID :	441009509278
Option 2 ID :	441009509277
Option 3 ID :	441009509276
Option 4 ID :	441009509275
Status :	Answered
Chosen Option :	4

Q.8	Which type of paint typically has the highest spreading capacity?
0	
Ans	<input checked="" type="checkbox"/> 1. Cement paint
	<input checked="" type="checkbox"/> 2. Enamel paint
	<input checked="" type="checkbox"/> 3. Plastic emulsion paint
	<input checked="" type="checkbox"/> 4. Oil paint

Question ID :	441009147940
Option 1 ID :	441009587637
Option 2 ID :	441009587640
Option 3 ID :	441009587638
Option 4 ID :	441009587639
Status :	Answered
Chosen Option :	3

Q.8	In the design of compression members under axial load with eccentricity (e), what is
1	the condition to ensure zero tensile stress at the extreme fibre of a rectangular cross-section (width b)?
Ans	<input checked="" type="checkbox"/> 1. $e \geq b/6$
	<input checked="" type="checkbox"/> 2. $e = b/2$
	<input checked="" type="checkbox"/> 3. $e = b/4$
	<input checked="" type="checkbox"/> 4. $e \leq b/6$

Question ID :	441009225633
Option 1 ID :	441009883393
Option 2 ID :	441009883394
Option 3 ID :	441009883391
Option 4 ID :	441009883392
Status :	Answered
Chosen Option :	4

Q.8	Which component is higher in OPC compared to PPC?
2	
Ans	<input checked="" type="checkbox"/> 1. Silica
	<input checked="" type="checkbox"/> 2. C3S (Tricalcium Silicate)
	<input checked="" type="checkbox"/> 3. Alumina
	<input checked="" type="checkbox"/> 4. Fly ash

Question ID :	441009146167
Option 1 ID :	441009580538
Option 2 ID :	441009580540
Option 3 ID :	441009580539
Option 4 ID :	441009580541
Status :	Answered
Chosen Option :	2

Q.8	Identify the primary factor influencing the selection of design speed for a highway.
3	
Ans	<input checked="" type="checkbox"/> 1. Land use along the highway
	<input checked="" type="checkbox"/> 2. Traffic volume
	<input checked="" type="checkbox"/> 3. Topography and road classification
	<input checked="" type="checkbox"/> 4. Type of vehicles using the road

Question ID :	441009177210
Option 1 ID :	441009700712
Option 2 ID :	441009700711
Option 3 ID :	441009700714
Option 4 ID :	441009700713
Status :	Not Answered
Chosen Option :	--

Q.8	In a detailed estimate, the measurements are determined from approved drawing and the quantity of each item is computed in the _____ sheet.
4	
Ans	<input checked="" type="checkbox"/> 1. report
	<input checked="" type="checkbox"/> 2. abstract
	<input checked="" type="checkbox"/> 3. measurement
	<input checked="" type="checkbox"/> 4. summary

Question ID :	441009114571
Option 1 ID :	441009455725
Option 2 ID :	441009455724
Option 3 ID :	441009455723
Option 4 ID :	441009455722
Status :	Answered
Chosen Option :	3

Q.8	One major pollutant from the fabrication industry is:
5	
Ans	<input checked="" type="checkbox"/> 1. Nitrogen gas
	<input checked="" type="checkbox"/> 2. Suspended particulate matter
	<input checked="" type="checkbox"/> 3. Hydrogen
	<input checked="" type="checkbox"/> 4. Radon

Question ID :	44100995543
Option 1 ID :	441009380128
Option 2 ID :	441009380129
Option 3 ID :	441009380130
Option 4 ID :	441009380131
Status :	Not Answered
Chosen Option :	--

Q.8	Which of the following is NOT an objective of road traffic signs?
6	
Ans	<input checked="" type="checkbox"/> 1. Indicate economic status of the region
	<input checked="" type="checkbox"/> 2. Manage traffic flow efficiently
	<input checked="" type="checkbox"/> 3. Improve safety of road users
	<input checked="" type="checkbox"/> 4. Inform about road conditions and hazards

Question ID :	441009225313
Option 1 ID :	441009882120
Option 2 ID :	441009882118
Option 3 ID :	441009882117
Option 4 ID :	441009882119
Status :	Answered
Chosen Option :	1

Q.8 7	In the determination of water content, using the oven drying method, the soil is generally kept for _____ hours, but the time required for drying of the sand is _____ the time required for drying of the clay.
Ans	<div><div>✖</div>1. 12; more than</div>
	<div><div>✔</div>2. 24; less than</div>
	<div><div>✖</div>3. 12; less than</div>
	<div><div>✖</div>4. 24; more than</div>

Question ID :	441009121258
Option 1 ID :	441009482036
Option 2 ID :	441009482035
Option 3 ID :	441009482037
Option 4 ID :	441009482034
Status :	Answered
Chosen Option :	2

Q.8 8	The Rebound Hammer Test (Schmidt Hammer Test) is primarily used to measure:
Ans	<div><div>✖</div>1. the workability of concrete</div>
	<div><div>✖</div>2. concrete density</div>
	<div><div>✔</div>3. the surface hardness and compressive strength</div>
	<div><div>✖</div>4. the porosity of concrete</div>

Question ID :	441009128300
Option 1 ID :	441009509817
Option 2 ID :	441009509815
Option 3 ID :	441009509814
Option 4 ID :	441009509816
Status :	Answered
Chosen Option :	3

Q.8 9	Why are built-up columns preferred for heavily loaded long compression members instead of standard rolled sections?
Ans	<div><div>✖</div>1. Built-up columns increase yield strength to the material.</div>
	<div><div>✖</div>2. Built-up columns always fail by buckling rather than crushing.</div>
	<div><div>✔</div>3. Built-up columns possess greater value and the least radius of gyration that improves buckling resistance.</div>
	<div><div>✖</div>4. Built-up columns eliminate the need for lateral bracing.</div>

Question ID :	441009157638
Option 1 ID :	441009625717
Option 2 ID :	441009625720
Option 3 ID :	441009625718
Option 4 ID :	441009625719
Status :	Answered
Chosen Option :	3

Q.9	Skempton's bearing capacity equation gives:
0	
Ans	<input checked="" type="checkbox"/> 1. safe bearing capacity
	<input checked="" type="checkbox"/> 2. net ultimate bearing capacity
	<input checked="" type="checkbox"/> 3. allowable bearing pressure
	<input checked="" type="checkbox"/> 4. ultimate bearing capacity

Question ID :	441009146983
Option 1 ID :	441009583747
Option 2 ID :	441009583745
Option 3 ID :	441009583748
Option 4 ID :	441009583746
Status :	Not Answered
Chosen Option :	--

Q.9	What is the primary function of vent pipes in a building drainage system?
1	
Ans	<input checked="" type="checkbox"/> 1. To maintain atmospheric pressure
	<input checked="" type="checkbox"/> 2. All of the above
	<input checked="" type="checkbox"/> 3. To avoid siphoning of trap seals
	<input checked="" type="checkbox"/> 4. To prevent airlocks

Question ID :	441009118473
Option 1 ID :	441009471053
Option 2 ID :	441009471055
Option 3 ID :	441009471054
Option 4 ID :	441009471052
Status :	Answered
Chosen Option :	2

Q.9	The setting of geopolymer cement is controlled by:
2	
Ans	<input checked="" type="checkbox"/> 1. hydration process similar to OPC
	<input checked="" type="checkbox"/> 2. curing at ambient temperature only
	<input checked="" type="checkbox"/> 3. addition of plasticisers
	<input checked="" type="checkbox"/> 4. heat-curing and use of alkali activators

Question ID :	441009146966
Option 1 ID :	441009583681
Option 2 ID :	441009583678
Option 3 ID :	441009583680
Option 4 ID :	441009583679
Status :	Answered
Chosen Option :	4

Q.9 3	The ratio of weight density of a fluid to the weight density of a standard fluid is called _____.
Ans	<input checked="" type="checkbox"/> 1. specific volume
	<input checked="" type="checkbox"/> 2. specific weight
	<input checked="" type="checkbox"/> 3. mass density
	<input checked="" type="checkbox"/> 4. specific gravity

Question ID :	441009200956
Option 1 ID :	441009791100
Option 2 ID :	441009791103
Option 3 ID :	441009791101
Option 4 ID :	441009791102
Status :	Answered
Chosen Option :	4

Q.9 4	A steel column with cross-sectional area 2000 mm ² is subjected to an axial compressive load of 120 kN. What are the value and nature of the direct stress developed in the column?
Ans	<input checked="" type="checkbox"/> 1. 600 N/mm ² ; compressive
	<input checked="" type="checkbox"/> 2. 60 N/mm ² ; tensile
	<input checked="" type="checkbox"/> 3. 60 N/mm ² ; compressive
	<input checked="" type="checkbox"/> 4. 0.06 N/mm ² ; compressive

Question ID :	441009225595
Option 1 ID :	441009883242
Option 2 ID :	441009883239
Option 3 ID :	441009883240
Option 4 ID :	441009883241
Status :	Answered
Chosen Option :	3

Q.9 5	The weight per metre length of a 40 mm sized reinforced bar is _____ kg.
Ans	<input checked="" type="checkbox"/> 1. 8.88
	<input checked="" type="checkbox"/> 2. 7.36
	<input checked="" type="checkbox"/> 3. 9.88
	<input checked="" type="checkbox"/> 4. 6.56

Question ID :	44100995634
Option 1 ID :	441009380509
Option 2 ID :	441009380510
Option 3 ID :	441009380508
Option 4 ID :	441009380511
Status :	Answered
Chosen Option :	3

Q.9 6 Why are doubly reinforced rectangular beam sections specifically used in multi-storeyed frames subjected to dynamic loads, as per the design principles discussed in RCC design provisions?

- Ans
- ☐ 1. To reduce the torsional capacity of the beam during seismic action
 - ☐ 2. To increase the beam width without affecting the moment capacity
 - ☐ 3. To improve bond characteristics at the beam–column junctions
 - ☒ 4. To enhance the beam's resistance to reversal of bending moments

Question ID :	441009157729
Option 1 ID :	441009625991
Option 2 ID :	441009625989
Option 3 ID :	441009625992
Option 4 ID :	441009625990
Status :	Answered
Chosen Option :	4

Q.9 7 Which of the following types of asphalt is commonly used in road surface dressing?

- Ans
- ☐ 1. Asphalt cement
 - ☒ 2. Cutback asphalt
 - ☐ 3. Mastic asphalt
 - ☐ 4. Blown asphalt

Question ID :	441009124926
Option 1 ID :	441009496579
Option 2 ID :	441009496580
Option 3 ID :	441009496581
Option 4 ID :	441009496582
Status :	Answered
Chosen Option :	2

Q.9 8 Under what specific geometric condition in the design of a rectangular footing, the provision of a central longitudinal beam recommended to improve performance and reduce slab depth?

- Ans
- ☐ 1. When the pedestal height exceeds the footing thickness significantly
 - ☐ 2. When the footing supports more than one column
 - ☒ 3. When the rectangular footing has a length-to-breadth ratio greater than 2.0
 - ☐ 4. When the column load is applied with large eccentricity along the shorter side

Question ID :	441009157846
Option 1 ID :	441009626368
Option 2 ID :	441009626367
Option 3 ID :	441009626366
Option 4 ID :	441009626369
Status :	Answered
Chosen Option :	4

Q.9	The representative fraction of a map whose scale is 1cm = 20m is _____.
9	
Ans	<div><div>✓</div><div>1. $\frac{1}{2000}$</div></div>
	<div><div>✗</div><div>2. $\frac{1}{20}$</div></div>
	<div><div>✗</div><div>3. $\frac{100}{20}$</div></div>
	<div><div>✗</div><div>4. $\frac{1}{200}$</div></div>

Question ID :	441009128153
Option 1 ID :	441009509231
Option 2 ID :	441009509232
Option 3 ID :	441009509233
Option 4 ID :	441009509234
Status :	Answered
Chosen Option :	1

Q.1	Wooden sleepers are still used because of their:
00	
Ans	<div><div>✗</div><div>1. long life</div></div>
	<div><div>✗</div><div>2. availability of local supply</div></div>
	<div><div>✓</div><div>3. elastic nature and ease of handling</div></div>
	<div><div>✗</div><div>4. non-degradable nature</div></div>

Question ID :	441009177315
Option 1 ID :	441009701118
Option 2 ID :	441009701119
Option 3 ID :	441009701121
Option 4 ID :	441009701120
Status :	Answered
Chosen Option :	3

Q.1	The dimensions of Johnson table used in plane table surveying is ____.
01	
Ans	<div><div>✗</div><div>1. 60 x 60 cm</div></div>
	<div><div>✗</div><div>2. 45 x 45 cm</div></div>
	<div><div>✓</div><div>3. 45 x 60 cm</div></div>
	<div><div>✗</div><div>4. 50 x 100 cm</div></div>

Question ID :	441009128361
Option 1 ID :	441009510060
Option 2 ID :	441009510059
Option 3 ID :	441009510058
Option 4 ID :	441009510061
Status :	Answered
Chosen Option :	3

Q.1 02 A soil retained behind a retaining wall fails in ____ if the retaining wall moves away from the soil.

- Ans ☒ 1. shear
- ☐ 2. compression
- ☐ 3. tension
- ☐ 4. effective stress

Question ID : 441009141755

Option 1 ID : 441009563204

Option 2 ID : 441009563205

Option 3 ID : 441009563206

Option 4 ID : 441009563207

Status : Answered

Chosen Option : 3

Q.1 03 Identify the correct statement about the error caused due to 'erroneous length of chain or tape' during chaining operation.

Statement I: It is a compensating error.

Statement II: It can be either + or –.

Statement III: If the chain is too short, the error will be positive.

- Ans ☐ 1. Statement I only
- ☐ 2. Statements I and II only
- ☐ 3. Statement II only
- ☒ 4. Statements II and III only

Question ID : 441009128182

Option 1 ID : 441009509349

Option 2 ID : 441009509348

Option 3 ID : 441009509350

Option 4 ID : 441009509347

Status : Answered

Chosen Option : 4

Q.1 04 Consolidation settlement of soil is attributed to:

- Ans ☐ 1. removal of air voids
- ☐ 2. removal of soil solids
- ☒ 3. removal of water voids
- ☐ 4. compression of soil solids

Question ID : 441009146872

Option 1 ID : 441009583305

Option 2 ID : 441009583303

Option 3 ID : 441009583304

Option 4 ID : 441009583302

Status : Answered

Chosen Option : 3

Q.105	As per IS 456:2000, the characteristic compressive strength of M20 concrete after 28 days should be at least:
Ans	<div>✗ 1. 15 MPa</div> <div>✓ 2. 20 MPa</div> <div>✗ 3. 10 MPa</div> <div>✗ 4. 28 MPa</div>

Question ID :	441009128254
Option 1 ID :	441009509636
Option 2 ID :	441009509637
Option 3 ID :	441009509635
Option 4 ID :	441009509638
Status :	Answered
Chosen Option :	2

Q.106	Which of the following is an advantage of kiln seasoning over natural seasoning?
Ans	<div>✓ 1. Faster and more uniform drying</div> <div>✗ 2. Less energy consumption</div> <div>✗ 3. No supervision needed</div> <div>✗ 4. Maintains high moisture content</div>

Question ID :	441009124901
Option 1 ID :	441009496481
Option 2 ID :	441009496479
Option 3 ID :	441009496480
Option 4 ID :	441009496482
Status :	Answered
Chosen Option :	1

Q.107	Which of the following is NOT a condition for most economical trapezoidal channel sections?
Ans	<div>✗ 1. Half of top width is equal to one of the sloping sides of the trapezoidal channel section</div> <div>✗ 2. Hydraulic mean depth is equal to half of the depth of flow</div> <div>✓ 3. Width of the channel section is equal to two times of the depth of flow</div> <div>✗ 4. A semicircle drawn from O centre of top width with radius equal to the depth of flow will touch the three sides of the channel</div>

Question ID :	441009265405
Option 1 ID :	4410091031469
Option 2 ID :	4410091031470
Option 3 ID :	4410091031472
Option 4 ID :	4410091031471
Status :	Answered
Chosen Option :	3

Q.1 08	A drop manhole is provided along a sewer line:
Ans	<input checked="" type="checkbox"/> 1. when rainwater is diverted into the sewer
	<input checked="" type="checkbox"/> 2. when the sewer drops from a height of more than 0.6 m or so
	<input checked="" type="checkbox"/> 3. to provide inspection chambers in the sewer lin
	<input checked="" type="checkbox"/> 4. when a branch sewer outfalls into it from a height of more than 0.6 m or so

Question ID :	441009119110
Option 1 ID :	441009473557
Option 2 ID :	441009473555
Option 3 ID :	441009473558
Option 4 ID :	441009473556
Status :	Answered
Chosen Option :	4

Q.1 09	Which type of terrain requires careful selection of alignment due to construction challenges?
Ans	<input checked="" type="checkbox"/> 1. Desert terrain
	<input checked="" type="checkbox"/> 2. Plain terrain
	<input checked="" type="checkbox"/> 3. Hilly terrain
	<input checked="" type="checkbox"/> 4. Coastal terrain

Question ID :	441009177185
Option 1 ID :	441009700617
Option 2 ID :	441009700615
Option 3 ID :	441009700618
Option 4 ID :	441009700616
Status :	Not Answered
Chosen Option :	--

Q.1 10	Which of the following is NOT a function of a head regulator?
Ans	<input checked="" type="checkbox"/> 1. Preventing flood water from entering the off-take canal
	<input checked="" type="checkbox"/> 2. Regulating the discharge of water to off-taking canal
	<input checked="" type="checkbox"/> 3. Controlling sediment entry into the off-taking canal
	<input checked="" type="checkbox"/> 4. Maintaining water level in the main river

Question ID :	441009103715
Option 1 ID :	441009413072
Option 2 ID :	441009413070
Option 3 ID :	441009413069
Option 4 ID :	441009413071
Status :	Answered
Chosen Option :	3

Q.1 11	Fluctuation in water consumption throughout the day is called:
Ans	<input checked="" type="checkbox"/> 1. water loss factor
	<input checked="" type="checkbox"/> 2. average deviation
	<input checked="" type="checkbox"/> 3. peak factor
	<input checked="" type="checkbox"/> 4. consumption variability

Question ID :	441009118220
Option 1 ID :	441009470041
Option 2 ID :	441009470043
Option 3 ID :	441009470042
Option 4 ID :	441009470040
Status :	Answered
Chosen Option :	4

Q.1 12	Identify the micro optic theodolite from the following options.
Ans	<input checked="" type="checkbox"/> 1. Tavistock theodolite
	<input checked="" type="checkbox"/> 2. Vicker's theodolite
	<input checked="" type="checkbox"/> 3. Wild T-1000 theodolite
	<input checked="" type="checkbox"/> 4. Wild T-2000 theodolite

Question ID :	441009128770
Option 1 ID :	441009511696
Option 2 ID :	441009511695
Option 3 ID :	441009511697
Option 4 ID :	441009511698
Status :	Answered
Chosen Option :	4

Q.1 13	Which of the following conditions would likely decrease the interception loss in the rainfall runoff process?
Ans	<input checked="" type="checkbox"/> 1. Thick forest undergrowth
	<input checked="" type="checkbox"/> 2. Dense canopy cover
	<input checked="" type="checkbox"/> 3. Increased leaf surface area
	<input checked="" type="checkbox"/> 4. High-intensity rainfall

Question ID :	441009102824
Option 1 ID :	441009409313
Option 2 ID :	441009409310
Option 3 ID :	441009409312
Option 4 ID :	441009409311
Status :	Answered
Chosen Option :	2

Q.1 In a symmetrical T-section (symmetric about the vertical axis), the horizontal neutral axis lies at:

- Ans
- ☒ 1. the mid-height of the section
 - ☒ 2. the centre of the web
 - ☒ 3. the bottom of the flange
 - ☒ 4. the centroid of the section

Question ID : 441009223960

Option 1 ID : 441009877120

Option 2 ID : 441009877119

Option 3 ID : 441009877118

Option 4 ID : 441009877121

Status : Answered

Chosen Option : 4

Q.1 In an under-reinforced RCC beam (singly reinforced) section, which of the following sequence of events most accurately describes the failure mechanism?

- Ans
- ☒ 1. Rupture of steel followed by crushing of concrete
 - ☒ 2. Rupture of tensile steel before concrete failure
 - ☒ 3. Simultaneous crushing of concrete and yielding of steel
 - ☒ 4. Yielding of steel followed by crushing of concrete

Question ID : 441009157696

Option 1 ID : 441009625929

Option 2 ID : 441009625932

Option 3 ID : 441009625930

Option 4 ID : 441009625931

Status : Answered

Chosen Option : 4

Q.1 In structural analyses, the slope at a point on a beam refers to the:

- Ans
- ☒ 1. second moment of area of the beam section at that point
 - ☒ 2. angle of rotation of the tangent to the beam's elastic curve at that point
 - ☒ 3. rate of change of loading intensity along the beam
 - ☒ 4. vertical displacement of the beam at that point under load

Question ID : 441009226063

Option 1 ID : 441009885068

Option 2 ID : 441009885067

Option 3 ID : 441009885069

Option 4 ID : 441009885066

Status : Not Answered

Chosen Option : --

Q.1	When road friction is low, which risk increases significantly?
17	
Ans	✓ 1. Skidding and accidents
	✗ 2. Vehicle taxation
	✗ 3. Fuel consumption
	✗ 4. Traffic signal delay

Question ID :	441009225302
Option 1 ID :	441009882076
Option 2 ID :	441009882075
Option 3 ID :	441009882074
Option 4 ID :	441009882077
Status :	Answered
Chosen Option :	1

Q.1	Calculate the cost of brick work in the footing for a 4 m long wall. Given the cross section of I step footing is 600 x 200 mm and II step footing is 500 x 200 mm with standard modular brick. Given the cost of brick work is ₹6,000 per m3.
18	
Ans	✓ 1. ₹5,280
	✗ 2. ₹5,080
	✗ 3. ₹2,400
	✗ 4. ₹2,880

Question ID :	441009102955
Option 1 ID :	441009409855
Option 2 ID :	441009409854
Option 3 ID :	441009409852
Option 4 ID :	441009409853
Status :	Answered
Chosen Option :	1

Q.1	Parallel axis theorem to find the moment of inertia of a plane lamina about a reference axis is useful when the reference axis:
19	
Ans	✓ 1. is parallel and offset from the centroidal axis
	✗ 2. passes through the centroid of the lamina
	✗ 3. lies in the plane of symmetry only
	✗ 4. is perpendicular to the plane of area

Question ID :	441009223943
Option 1 ID :	441009877055
Option 2 ID :	441009877054
Option 3 ID :	441009877057
Option 4 ID :	441009877056
Status :	Answered
Chosen Option :	1

Q.1	Which chemical parameter is most relevant in energy recovery from waste?
20	
Ans	<input checked="" type="checkbox"/> 1. Moisture content
	<input checked="" type="checkbox"/> 2. Carbon-to-nitrogen ratio
	<input checked="" type="checkbox"/> 3. Calorific value
	<input checked="" type="checkbox"/> 4. Nitrogen content

Question ID :	44100995515
Option 1 ID :	441009380018
Option 2 ID :	441009380017
Option 3 ID :	441009380019
Option 4 ID :	441009380016
Status :	Answered
Chosen Option :	3

Q.1	The most important property of a good canal lining is:
21	
Ans	<input checked="" type="checkbox"/> 1. high roughness
	<input checked="" type="checkbox"/> 2. high water absorption
	<input checked="" type="checkbox"/> 3. high seepage rate
	<input checked="" type="checkbox"/> 4. high resistance to erosion

Question ID :	441009103697
Option 1 ID :	441009412999
Option 2 ID :	441009412997
Option 3 ID :	441009413000
Option 4 ID :	441009412998
Status :	Answered
Chosen Option :	4

Q.1	Which type of trap is most commonly installed at the outlet of an inspection chamber to prevent the entry of sewer gases into the building drainage system?
22	
Ans	<input checked="" type="checkbox"/> 1. Bottle trap
	<input checked="" type="checkbox"/> 2. Gully trap
	<input checked="" type="checkbox"/> 3. Floor trap
	<input checked="" type="checkbox"/> 4. Intercepting trap

Question ID :	441009118476
Option 1 ID :	441009471066
Option 2 ID :	441009471064
Option 3 ID :	441009471067
Option 4 ID :	441009471065
Status :	Answered
Chosen Option :	4

Q.1 23	The ordinates of the mass diagram used for earthwork excavation calculation is _____.
Ans	<div><div><div>✖</div><div>1. distance and elevation</div></div></div>
	<div><div><div>✔</div><div>2. distance and algebraic sum of the volumes of the cuttings and embankments from the start of the earthwork</div></div></div>
	<div><div><div>✖</div><div>3. distance and mass of earthwork</div></div></div>
	<div><div><div>✖</div><div>4. distance and depth of cutting/embankment</div></div></div>

Question ID :	441009128352
Option 1 ID :	441009510023
Option 2 ID :	441009510022
Option 3 ID :	441009510024
Option 4 ID :	441009510025
Status :	Answered
Chosen Option :	2

Q.1 24	If the _____ bearing of a survey line is measured at two different seasons of a year, it will be a constant quantity.
Ans	<div><div><div>✖</div><div>1. arbitrary</div></div></div>
	<div><div><div>✖</div><div>2. azimuthal</div></div></div>
	<div><div><div>✔</div><div>3. true</div></div></div>
	<div><div><div>✖</div><div>4. magnetic</div></div></div>

Question ID :	441009128206
Option 1 ID :	441009509449
Option 2 ID :	441009509450
Option 3 ID :	441009509447
Option 4 ID :	441009509448
Status :	Answered
Chosen Option :	3

Q.1 25	The main complexity in finding the moment of inertia for an unsymmetrical I-section arises due to:
Ans	<div><div><div>✔</div><div>1. unequal flange widths or thicknesses</div></div></div>
	<div><div><div>✖</div><div>2. fabrication difficulty</div></div></div>
	<div><div><div>✖</div><div>3. load application direction</div></div></div>
	<div><div><div>✖</div><div>4. the use of different materials</div></div></div>

Question ID :	441009223972
Option 1 ID :	441009877174
Option 2 ID :	441009877177
Option 3 ID :	441009877176
Option 4 ID :	441009877175
Status :	Answered
Chosen Option :	1

Q.1 26 A hospital was constructed with 150 beds at the cost of ₹3,00,00,000. A new hospital is proposed to be constructed with 100 beds in the same locality. What is the approximate construction cost of the proposed new hospital?

- Ans
- ☒ 1. ₹30,00,000
 - ☐ 2. ₹20,00,000
 - ☐ 3. ₹4,00,00,000
 - ☒ 4. ₹2,00,00,000

Question ID : 441009115104

Option 1 ID : 441009457843

Option 2 ID : 441009457842

Option 3 ID : 441009457844

Option 4 ID : 441009457841

Status : Answered

Chosen Option : 4

Q.1 27 Intrinsic permeability is a permeability that only depends on _____ properties and the coefficient of intrinsic permeability has the unit _____.

- Ans
- ☒ 1. medium; m²
 - ☐ 2. fluid; m/s
 - ☐ 3. medium; m/s
 - ☐ 4. fluid; m²

Question ID : 441009140000

Option 1 ID : 441009556234

Option 2 ID : 441009556235

Option 3 ID : 441009556233

Option 4 ID : 441009556236

Status : Not Answered

Chosen Option : --

Q.1 28 Which of the following option is correct with respect to the statements regarding the setting time of Ordinary Portland cement (OPC) and Portland Pozzolana Cement (PPC).

Statement 1: The initial setting time of OPC and PPC can be influenced by the fineness of cement particles.

Statement 2: Coarser cement particles increase the setting time, while finer particles reduce it.

- Ans
- ☒ 1. Both statements are true.
 - ☐ 2. Both statements are false.
 - ☐ 3. Statement 1 is false, but Statement 2 is true.
 - ☐ 4. Statement 1 is true, but Statement 2 is false.

Question ID : 441009125062

Option 1 ID : 441009497127

Option 2 ID : 441009497128

Option 3 ID : 441009497130

Option 4 ID : 441009497129

Status : Not Answered

Chosen Option : --

Q.1 Which hardened concrete property is most affected by the W/C ratio?
29

- Ans
- ☒ 1. Resistance to carbonation
 - ☒ 2. Resistance to abrasion
 - ☒ 3. Thermal expansion
 - ☒ 4. Compressive strength

Question ID : 441009128107

Option 1 ID : 441009509047

Option 2 ID : 441009509049

Option 3 ID : 441009509050

Option 4 ID : 441009509048

Status : Answered

Chosen Option : 4

Q.1 What is a limitation of soda lime glass?
30

- Ans
- ☒ 1. Poor light transmission
 - ☒ 2. Low resistance to thermal shock
 - ☒ 3. High electrical conductivity
 - ☒ 4. High cost

Question ID : 441009146893

Option 1 ID : 441009583386

Option 2 ID : 441009583388

Option 3 ID : 441009583387

Option 4 ID : 441009583389

Status : Not Answered

Chosen Option : --

Q.1 The moment of inertia of a hollow circular section about the diametric axis is maximum
31 when the:

- Ans
- ☒ 1. inner and outer radii are nearly the same
 - ☒ 2. inner radius is much greater than the outer radius
 - ☒ 3. outer radius is much greater than the inner radius
 - ☒ 4. thickness of section is very small

Question ID : 441009223964

Option 1 ID : 441009877145

Option 2 ID : 441009877142

Option 3 ID : 441009877144

Option 4 ID : 441009877143

Status : Not Answered

Chosen Option : --

Q.1 32 Which of the following pairs are correctly matched, as per the IS 1892 guidelines for soil exploration?

- A: Compact building site with area less than 0.4 hectare : only one bore hole at the centre
- B: Compact building site with area less than 0.4 hectare : one bore hole at the centre and one at each corner
- C: Depth of exploration for isolated spread footing : 1.5 times width of footing
- D: Depth of exploration for isolated spread footing : 5 m below ground level

- Ans

1. A and D
2. B and C
3. A and C
4. B and D

Question ID :	441009146783
Option 1 ID :	441009582948
Option 2 ID :	441009582946
Option 3 ID :	441009582947
Option 4 ID :	441009582949
Status :	Not Answered
Chosen Option :	--

Q.1 33 The hydraulic machine that converts mechanical energy into pressure energy by means of centrifugal force is called _____.

- Ans

1. Kaplan turbine
2. Centrifugal pump
3. Pelton turbine
4. Draft tube

Question ID :	441009265467
Option 1 ID :	4410091031726
Option 2 ID :	4410091031727
Option 3 ID :	4410091031725
Option 4 ID :	4410091031728
Status :	Answered
Chosen Option :	4

Q.1 34 Which of the following is a major consequence of flooding?

- Ans

1. Reduction in atmospheric humidity
2. Increase in soil fertility
3. Decrease in river water levels
4. Displacement of people and loss of lives

Question ID :	441009105637
Option 1 ID :	441009420683
Option 2 ID :	441009420681
Option 3 ID :	441009420682
Option 4 ID :	441009420680
Status :	Answered
Chosen Option :	4

Q.1 35	What type of traffic signal is commonly used to control the flow of traffic during high-volume periods?
Ans	<input checked="" type="checkbox"/> 1. Fixed yellow signal
	<input checked="" type="checkbox"/> 2. Flashing red signal
	<input checked="" type="checkbox"/> 3. Traffic-actuated signal
	<input checked="" type="checkbox"/> 4. Fixed green signal

Question ID :	441009225334
Option 1 ID :	441009882200
Option 2 ID :	441009882197
Option 3 ID :	441009882199
Option 4 ID :	441009882198
Status :	Not Answered
Chosen Option :	--

Q.1 36	Identify the relationship between superelevation and the design speed of a curve.
Ans	<input checked="" type="checkbox"/> 1. Superelevation increases with decreasing design speed.
	<input checked="" type="checkbox"/> 2. Superelevation decreases with increasing design speed.
	<input checked="" type="checkbox"/> 3. Superelevation increases with increasing design speed.
	<input checked="" type="checkbox"/> 4. Superelevation is independent of design speed.

Question ID :	441009177228
Option 1 ID :	441009700778
Option 2 ID :	441009700780
Option 3 ID :	441009700781
Option 4 ID :	441009700779
Status :	Answered
Chosen Option :	3

Q.1 37	Which of the following statements is true regarding the effect of h/d ratio on compressive strength?
Ans	<input checked="" type="checkbox"/> 1. A lower h/d ratio results in lower measured compressive strength
	<input checked="" type="checkbox"/> 2. A higher h/d ratio leads to higher measured compressive strength
	<input checked="" type="checkbox"/> 3. Compressive strength is independent of a h/d ratio
	<input checked="" type="checkbox"/> 4. Standardised tests use h/d = 2 to minimise strength variation

Question ID :	441009128282
Option 1 ID :	441009509742
Option 2 ID :	441009509743
Option 3 ID :	441009509745
Option 4 ID :	441009509744
Status :	Not Answered
Chosen Option :	--

Q.1	Which of the following methods is NOT commonly used for a concrete mix design?
38	
Ans	✓ 1. Slump test method
	✗ 2. IS code method
	✗ 3. DOE method
	✗ 4. ACI method

Question ID :	441009128217
Option 1 ID :	441009509490
Option 2 ID :	441009509488
Option 3 ID :	441009509489
Option 4 ID :	441009509487
Status :	Not Answered
Chosen Option :	--

Q.1	What happens to the water stored in depressions after a rainfall?
39	
Ans	✗ 1. It remains indefinitely in depressions.
	✗ 2. It turns into groundwater without evaporation.
	✗ 3. It is directly absorbed into plant roots.
	✓ 4. It evaporates, infiltrates into the soil or overflows as runoff.

Question ID :	441009102837
Option 1 ID :	441009409362
Option 2 ID :	441009409365
Option 3 ID :	441009409364
Option 4 ID :	441009409363
Status :	Answered
Chosen Option :	4

Q.1	Uplift pressure in a gravity dam acts:
40	
Ans	✗ 1. downward on the dam base
	✗ 2. at an inclined angle
	✗ 3. horizontally towards the dam
	✓ 4. upward from the foundation

Question ID :	441009103059
Option 1 ID :	441009410300
Option 2 ID :	441009410303
Option 3 ID :	441009410301
Option 4 ID :	441009410302
Status :	Not Answered
Chosen Option :	--