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Participant ID	
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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 1. To promote Chinese imports 2. To increase trade relations with China 3. To protect domestic industries from unfairly priced imports 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 1. Fifth 2. Third 3. Second 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 1. Exemption from immigration checks

2. Free visa-on-arrival for all countries

3. Automatic citizenship for long-term visitors

4. Real-time tracking and scrutiny at multiple stages

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 1. 1915

2. 1921

3. 1912

4. 1905

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 1. Bundi School

2. Kishangarh School

3. Mewar School

4. Basohli School

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
3 field of Art in 2025?

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
4 following cities?

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 Simlipal, 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 1. Table Tennis

2. Para-Archery

3. Para-Badminton

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 1. 3 only

2. 1, 2 and 3

3. 1 and 2 only

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 1. Chief Justice of India

2. Speaker of the Lok Sabha

3. Prime Minister of India

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. Pushyabutis

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. PQQ : 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

Q.3 Each letter in the word VANISHED is arranged in the English alphabetical order. How many letters are there in the English alphabetical order between the letter which is second from the left and the one which is fourth from the right in the new letter cluster thus formed?

Ans 1. One
 2. Four
 3. Five
 4. Three

Question ID : 4410091313727

Option 1 ID : 4410095186607

Option 2 ID : 4410095186608

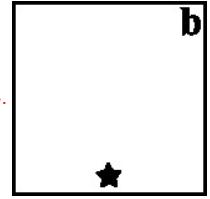
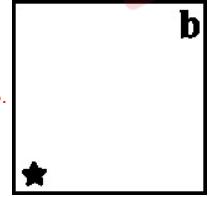
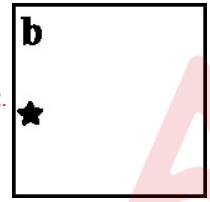
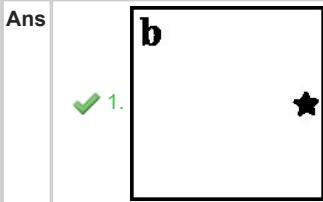
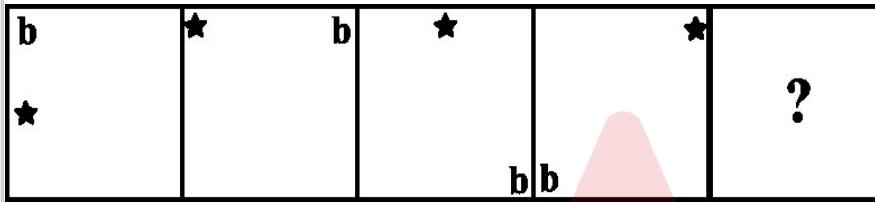
Option 3 ID : 4410095186609

Option 4 ID : 4410095186610

Status : Not Answered

Chosen Option : --

Q.4 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.



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 '×' 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.1 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 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 done from left to right only. All numbers are single-digit numbers.
6

(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 'x', 'C' stands for '+' and 'D' stands for '−', then what will come in place of the question mark (?) in the following equation?

7 174 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 8 English alphabetical order?

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 9 to 278. To which of the following is 146 related to, 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. 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 1. 4

2. 1

3. 2

4. 3

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 '×', '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 1. 42

2. 39

3. 43

4. 33

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 1. 5

2. 8

3. 1

4. 2

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 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 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 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

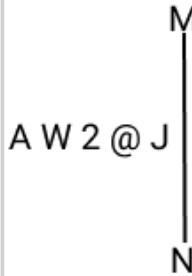
Option 3 ID : 4410095182809

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 Ⓛ Σ W A
- 2. L Ⓛ Σ W A
- 3. L Ⓛ Σ W A
- 4. L Ⓛ Σ 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

Section : Branch Specific (Civil)

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 50m^2 . Given the item rate of prime coat is ₹2,000/- per 100 m^2 and paint one coat is ₹6,500/- per 100 m^2 . 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 1. support aquatic ecosystems

2. enhance the water temperature

3. increase water seepage into the surrounding soil

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 1. Improves aeration and root growth

2. Reduces oxygen availability and affects plant growth

3. Increases soil nutrient content permanently

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 1. Report

2. Budget

3. Estimate

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 1. water absorption

2. NRC (Noise Reduction Coefficient)

3. expansion coefficient

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

7

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 established

Grand Total

Ans 1. measurement sheet

2. face sheet

3. abstract sheet

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 1. Soda-lime glass
 2. Laminated glass
 3. Wired glass
 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
9 of tile flooring is ₹36 per m². Assume the tile wastage is 10%.

Ans 1. ₹1,188
 2. ₹999
 3. ₹1,080
 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 1. Load causing torsion in the member
 2. Load acting perpendicular to the axis of the member
 3. Load acting along the longitudinal axis of the member
 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 How does lateral bracing affect the effective length of a steel compression member?

1

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

2

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 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.

3 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 another column of the fluid is called a/an _____.
7

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 : _____.
8

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 ($c = 0$, $\phi = 30$, and $\gamma = 18 \text{ kN/m}^3$) and from 5 m to 10 m depth ($c = 0$, $\phi = 30$, and $\gamma = 20 \text{ kN/m}^3$). Find the ratio of passive pressures just above and below the soil at 5 m depth.
9

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:

5

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 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

- 1. Flange positioned in the compression zone of the section during bending
- 2. Flange having tensile strength greater than that of the web concrete
- 3. Reinforcement provided within the flange parallel to the slab plane
- 4. Flange located entirely in the tension zone of the section

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 The flexural stiffness of a beam is given by:

7

Ans

- 1. Modulus of elasticity (E) \times Area (A)
- 2. Modulus of elasticity (E) \times Moment of inertia (I)
- 3. Load (P) \times Length (L)
- 4. Moment of inertia (I) / Modulus of elasticity (E)

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 Which of the following statements is true about the method of curve setting by deflection distances?

8

Ans

- 1. It is employed for setting small curves only.
- 2. It has a defect that the error in fixing point is carried forward.
- 3. It is an angular method of curve setting.
- 4. It can be employed only when a theodolite is available.

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 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 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 What deductions are made for openings of more than 0.5 m^2 and less than 3 m^2 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 1. increasing irrigation supply
 2. providing an effective drainage system
 3. compacting the soil
 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 1. increases by 50%
 2. decreases by 50%
 3. increases by 25%
 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 7 passes:

Ans 1. through the bottom flange of the section
 2. through the top flange of the section
 3. through the centroid of the section
 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
1 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?
2

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
3 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:

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?

Ans 1. Development length failure at the fixed end
 2. Reversal of stress
 3. Shear cracking near the support
 4. Critical moment Mcr 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 1. Higher cement content

2. Improper curing conditions

3. Increased fineness of cement

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 1. fluids moving under external pressure

2. compressible fluid flow

3. fluids at rest

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 1. Uniform compressive stress across the entire base of the chimney

2. Maximum shear stress at the centre and zero stress on the edges

3. Maximum compressive stress on the windward edge and tensile stress on the leeward edge

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?

Ans 1. Increased span length, larger web width and greater flange thickness
 2. Shorter span combined with increased reinforcement covers
 3. Application of concentrated point loads at midspan
 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 1. bonding multiple veneer layers under pressure with resins
 2. mixing cement and sawdust
 3. polishing wood surfaces only
 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 1. boiling the brick
 2. weighing dry and wet brick after soaking in water for 24 hours
 3. immersing in lime solution
 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 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 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 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 2 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? 3

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 4 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 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 1. Stadia interval factor, multiplying constant
 2. Additive constant, stadia intercept
 3. Multiplying constant, stadia intercept
 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 Which of the following statements is true regarding the polar moment of inertia of a circular lamina?

Ans 1. It is the sum of moments of inertia about two perpendicular diameters.
 2. It is mostly considered during the bending analysis of beams.
 3. It is always greater than the mass moment of inertia for solids.
 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 The type of soil compacted by a roller having many round or rectangular projections attached to a steel drum is:

Ans 1. clayey soil
 2. silty soil
 3. gravel soil
 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 1. quadratically with radius
 2. cubically with radius
 3. linearly with radius
 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 1. It can be used for FPS system.
 2. It can be used for CGS system.
 3. It can measure two dimensions only
 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 1. Cement paint
 2. Enamel paint
 3. Plastic emulsion paint
 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 the condition to ensure zero tensile stress at the extreme fibre of a rectangular cross-section (width b)?

Ans 1. $e \geq b/6$

2. $e = b/2$

3. $e = b/4$

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?

Ans 1. Silica

2. C3S (Tricalcium Silicate)

3. Alumina

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.

Ans 1. Land use along the highway

2. Traffic volume

3. Topography and road classification

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.

Ans 1. report
 2. abstract
 3. measurement
 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 1. Nitrogen gas
 2. Suspended particulate matter
 3. Hydrogen
 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 1. Indicate economic status of the region
 2. Manage traffic flow efficiently
 3. Improve safety of road users
 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 In the determination of water content, using the oven drying method, the soil in
7 generally is kept for _____ hours, but the time required for drying of the sand is
_____ the time required for drying of the clay.

Ans 1. 12; more than

2. 24; less than

3. 12; less than

4. 24; more than

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 The Rebound Hammer Test (Schmidt Hammer Test) is primarily used to measure:
8

Ans 1. the workability of concrete

2. concrete density

3. the surface hardness and compressive strength

4. the porosity of concrete

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 Why are built-up columns preferred for heavily loaded long compression members
9 instead of standard rolled sections?

Ans 1. Built-up columns increase yield strength to the material.

2. Built-up columns always fail by buckling rather than crushing.

3. Built-up columns possess greater value and the least radius of gyration that improves buckling resistance.

4. Built-up columns eliminate the need for lateral bracing.

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 1. safe bearing capacity

2. net ultimate bearing capacity

3. allowable bearing pressure

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 1. To maintain atmospheric pressure

2. All of the above

3. To avoid siphoning of trap seals

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 1. hydration process similar to OPC

2. curing at ambient temperature only

3. addition of plasticisers

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 The ratio of weight density of a fluid to the weight density of a standard fluid is called

3 _____.

Ans 1. specific volume
 2. specific weight
 3. mass density
 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 A steel column with cross-sectional area 2000 mm² is subjected to an axial
4 compressive load of 120 kN. What are the value and nature of the direct stress
developed in the column?

Ans 1. 600 N/mm²; compressive
 2. 60 N/mm²; tensile
 3. 60 N/mm²; compressive
 4. 0.06 N/mm²; 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 The weight per metre length of a 40 mm sized reinforced bar is _____ kg.

5 _____.

Ans 1. 8.88
 2. 7.36
 3. 9.88
 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 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 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 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

✓ 1. $\frac{1}{2000}$

✗ 2. $\frac{1}{20}$

✗ 3. $\frac{100}{20}$

✗ 4. $\frac{1}{200}$

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 ✗ 1. long life

✗ 2. availability of local supply

✓ 3. elastic nature and ease of handling

✗ 4. non-degradable nature

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 ✗ 1. 60 x 60 cm

✗ 2. 45 x 45 cm

✓ 3. 45 x 60 cm

✗ 4. 50 x 100 cm

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

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 Identify the correct statement about the error caused due to 'erroneous length of chain
03 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 Consolidation settlement of soil is attributed to:
04

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.1 As per IS 456:2000, the characteristic compressive strength of M20 concrete after 28 days should be at least:

Ans 1. 15 MPa
 2. 20 MPa
 3. 10 MPa
 4. 28 MPa

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.1 Which of the following is an advantage of kiln seasoning over natural seasoning?

Ans 1. Faster and more uniform drying
 2. Less energy consumption
 3. No supervision needed
 4. Maintains high moisture content

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.1 Which of the following is NOT a condition for most economical trapezoidal channel sections?

Ans 1. Half of top width is equal to one of the sloping sides of the trapezoidal channel section
 2. Hydraulic mean depth is equal to half of the depth of flow
 3. Width of the channel section is equal to two times of the depth of flow
 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

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 A drop manhole is provided along a sewer line:
08

Ans

- 1. when rainwater is diverted into the sewer
- 2. when the sewer drops from a height of more than 0.6 m or so
- 3. to provide inspection chambers in the sewer line
- 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 Which type of terrain requires careful selection of alignment due to construction challenges?
09

Ans

- 1. Desert terrain
- 2. Plain terrain
- 3. Hilly terrain
- 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 Which of the following is NOT a function of a head regulator?
10

Ans

- 1. Preventing flood water from entering the off-take canal
- 2. Regulating the discharge of water to off-taking canal
- 3. Controlling sediment entry into the off-taking canal
- 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 Fluctuation in water consumption throughout the day is called:

11

Ans 1. water loss factor

2. average deviation

3. peak factor

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 Identify the micro optic theodolite from the following options.

12

Ans 1. Tavistock theodolite

2. Vicker's theodolite

3. Wild T-1000 theodolite

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 Which of the following conditions would likely decrease the interception loss in the rainfall runoff process?

13

Ans 1. Thick forest undergrowth

2. Dense canopy cover

3. Increased leaf surface area

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 1. Moisture content

2. Carbon-to-nitrogen ratio

3. Calorific value

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 1. high roughness

2. high water absorption

3. high seepage rate

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 1. Bottle trap

2. Gully trap

3. Floor trap

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 The ordinates of the mass diagram used for earthwork excavation calculation is
23 _____.

Ans 1. distance and elevation

2. distance and algebraic sum of the volumes of the cuttings and embankments from the start of the earthwork

3. distance and mass of earthwork

4. distance and depth of cutting/embankment

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 If the _____ bearing of a survey line is measured at two different seasons of a year,
24 it will be a constant quantity.

Ans 1. arbitrary

2. azimuthal

3. true

4. magnetic

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 The main complexity in finding the moment of inertia for an unsymmetrical I-section
25 arises due to:

Ans 1. unequal flange widths or thicknesses

2. fabrication difficulty

3. load application direction

4. the use of different materials

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 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 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 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 when the:

31 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 Which of the following pairs are correctly matched, as per the IS 1892 guidelines for 32 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 The hydraulic machine that converts mechanical energy into pressure energy by 33 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 Which of the following is a major consequence of flooding? 34

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 What type of traffic signal is commonly used to control the flow of traffic during high-volume periods?

Ans 1. Fixed yellow signal

2. Flashing red signal

3. Traffic-actuated signal

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 Identify the relationship between superelevation and the design speed of a curve.

36

Ans 1. Superelevation increases with decreasing design speed.

2. Superelevation decreases with increasing design speed.

3. Superelevation increases with increasing design speed.

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 Which of the following statements is true regarding the effect of h/d ratio on compressive strength?

37

Ans 1. A lower h/d ratio results in lower measured compressive strength

2. A higher h/d ratio leads to higher measured compressive strength

3. Compressive strength is independent of a h/d ratio

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 : --