



Participant ID	
Participant Name	
Test Center Name	iON Digital Zone iDZ Madhyamgram
Test Date	14/12/2025
Test Time	9:00 AM - 11:00 AM
Subject	Executive Civil

Section : General Knowledge

Q.1 The first chairman of the British Committee of the Indian National Congress was _____.

- Ans ☒ A. AO Hume
- ☒ B. William Wedderburn
- ☒ C. Dadabhai Naoroji
- ☒ D. William Digby

Question ID : 4410091438622
Option 1 ID : 4410095683189
Option 2 ID : 4410095683192
Option 3 ID : 4410095683191
Option 4 ID : 4410095683190
Status : Answered
Chosen Option : A

Q.2 Which two teams played in the final match of the 2025 FIFA Under-20 World Cup in Chile?

- Ans ☒ A. Morocco and Argentina
- ☒ B. Brazil and Argentina
- ☒ C. Morocco and France
- ☒ D. Chile and Morocco

Question ID : 4410091436642
Option 1 ID : 4410095675227
Option 2 ID : 4410095675226
Option 3 ID : 4410095675229
Option 4 ID : 4410095675228
Status : Answered
Chosen Option : D

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Q.3 Which of the following deals with detailing the imposition, abolition, remission, alteration or regulation of taxes proposed in the Budget?

- Ans
- ☒ A. Public Accounts
 - ☒ B. Fiscal Policy
 - ☒ C. Finance Bill
 - ☒ D. Appropriation Bills

Question ID : 441009627953
Option 1 ID : 4410092465967
Option 2 ID : 4410092465965
Option 3 ID : 4410092465966
Option 4 ID : 4410092465964
Status : Answered
Chosen Option : B

Q.4 The term 'Sovereign' in the Preamble of the Indian Constitution fundamentally implies that India has:

- Ans
- ☒ A. An association with the UN that mandates India to frame its domestic policies in accordance with international directives
 - ☒ B. The unrestricted power to legislate and complete autonomy over its internal and external affairs
 - ☒ C. The power to change the Constitution only after securing a two-thirds majority in the Parliament and the consent of the British Crown
 - ☒ D. The power to enter into treaties only with approval from the Commonwealth of Nations

Question ID : 4410091438761
Option 1 ID : 4410095683747
Option 2 ID : 4410095683746
Option 3 ID : 4410095683745
Option 4 ID : 4410095683744
Status : Answered
Chosen Option : B

Q.5 Who is the first transgender person from Karnataka to join a Supreme Court-appointed committee on equal opportunity policy for transgender rights?

- Ans
- ☒ A. Aishwarya Rutuparna Pradhan
 - ☒ B. Kalki Subramaniam
 - ☒ C. Akkai Padmashali
 - ☒ D. Dr. Manabi Bandopadhyay

Question ID : 4410091436824
Option 1 ID : 4410095676025
Option 2 ID : 4410095676027
Option 3 ID : 4410095676024
Option 4 ID : 4410095676026
Status : Not Answered
Chosen Option : --

Q.6 'Sattriya' dance form originated in _____.

- Ans
- ☒ A. Odisha
 - ☒ B. Manipur
 - ☒ C. Assam
 - ☒ D. West Bengal

Question ID : 441009609202
Option 1 ID : 4410092391925
Option 2 ID : 4410092391927
Option 3 ID : 4410092391928
Option 4 ID : 4410092391926
Status : Answered
Chosen Option : C

Q.7 According to Article 252 of the Indian Constitution, under what condition can the Union Parliament legislate on a subject enumerated in the State List for two or more States?

- Ans
- ☒ A. When the President of India grants special permission after a request from the Governor of a concerned State
 - ☒ B. When the Supreme Court of India directs the Parliament to make a uniform law for multiple States
 - ☒ C. When the Rajya Sabha (Council of States) passes a resolution with a two-thirds majority declaring the matter to be of national interest
 - ☒ D. When the legislatures of two or more States pass a resolution requesting the Parliament to make a law on that particular subject

Question ID : 4410091438647
Option 1 ID : 4410095683293
Option 2 ID : 4410095683296
Option 3 ID : 4410095683294
Option 4 ID : 4410095683295
Status : Answered
Chosen Option : D

Q.8 Which company unveiled India's first AI-ready, cloud-based virtual desktop platform recently?

- Ans
- ☒ A. Wipro
 - ☒ B. Microsoft India
 - ☒ C. Reliance Jio
 - ☒ D. IBM

Question ID : 4410091436728
Option 1 ID : 4410095675623
Option 2 ID : 4410095675624
Option 3 ID : 4410095675625
Option 4 ID : 4410095675622
Status : Answered
Chosen Option : C

Q.9 Which Constitutional Amendment Act made the Right to Education a Fundamental Right in the Indian Constitution by inserting a new Article?

- Ans
- ☒ A. 97th Amendment Act
 - ☒ B. 73rd Amendment Act
 - ☒ C. 42nd Amendment Act
 - ☒ D. 86th Amendment Act

Question ID : 4410091438732
Option 1 ID : 4410095683635
Option 2 ID : 4410095683633
Option 3 ID : 4410095683632
Option 4 ID : 4410095683634
Status : Answered
Chosen Option : D

Q.10 Who was arrested and sentenced to death after he attacked British officers in Barrackpore on March 29, 1857?

- Ans
- ☒ A. Mangal Pandey
 - ☒ B. Naik Shahamad Khan
 - ☒ C. Tantia Tope
 - ☒ D. Darwan Singh Negi

Question ID : 4410091438612
Option 1 ID : 4410095683149
Option 2 ID : 4410095683152
Option 3 ID : 4410095683150
Option 4 ID : 4410095683151
Status : Answered
Chosen Option : A

Q.11 As per Multidimensional Poverty Index 2022, how much population's poverty reduces within a span of the last 15 years in India?

- Ans
- ☒ A. About 350 million people
 - ☒ B. About 500 million people
 - ☒ C. About 300 million people
 - ☒ D. About 415 million people

Question ID : 441009638199
Option 1 ID : 4410092506940
Option 2 ID : 4410092506942
Option 3 ID : 4410092506939
Option 4 ID : 4410092506941
Status : Not Answered
Chosen Option : --

Q.12 Which of the following winds, originating from the Bay of Bengal and the Arabian Sea, bring the main rainfall to most parts of India between June and September?

Ans ☒ A. South-West Monsoon

☐ B. Westerly Disturbances

☐ C. Trade Winds

☐ D. North-East Monsoon

Question ID : 4410091438819

Option 1 ID : 4410095683976

Option 2 ID : 4410095683977

Option 3 ID : 4410095683978

Option 4 ID : 4410095683979

Status : Answered

Chosen Option : A

Section : General Aptitude Reasoning

Q.1 EDITE is related to CBGRC in a certain way based on the English alphabetical order. In the same way, RANGE is related to PYLEC. To which of the following is STAND related, following the same logic?

Ans ☐ A. QRYLA

☐ B. QRZLB

☐ C. QPYLB

☒ D. QRYLB

Question ID : 441009771609

Option 1 ID : 4410093040430

Option 2 ID : 4410093040432

Option 3 ID : 4410093040431

Option 4 ID : 4410093040429

Status : Answered

Chosen Option : D

Q.2 If ₹80,000 grows to ₹92,450 in 2 years at compound interest compounded annually, what is the rate of interest?⁶⁴⁷⁴

Ans ☐ A. 0.1

☐ B. 5%

☐ C. 12.5%

☒ D. 7.5%

Question ID : 441009899787

Option 1 ID : 4410093553220

Option 2 ID : 4410093553218

Option 3 ID : 4410093553221

Option 4 ID : 4410093553219

Status : Answered

Chosen Option : D

Q.3 Two persons, A and B, start running from the same point in the same direction along a circular path of length 4 km with speeds 10 km/h and 8 km/h, respectively. After how many hours will they meet again?

- Ans ☒ A. 3
☒ B. 2
☒ C. 1.5
☒ D. 2.5

Question ID : 441009538440
Option 1 ID : 4410092109159
Option 2 ID : 4410092109156
Option 3 ID : 4410092109157
Option 4 ID : 4410092109158
Status : Answered
Chosen Option : B

Q.4 A man has invested ₹52,500 at a rate of 10% per annum simple interest for 2 years. Find the amount (in ₹) that he will receive after 2 years.

- Ans ☒ A. 57,750
☒ B. 63,000
☒ C. 5,250
☒ D. 10,500

Question ID : 441009516960
Option 1 ID : 4410092023261
Option 2 ID : 4410092023259
Option 3 ID : 4410092023262
Option 4 ID : 4410092023260
Status : Answered
Chosen Option : B

Q.5 A car travels 120 km at a speed of 60 km/h and then travels another 180 km at a speed of 90 km/h. What is the average speed for the entire journey?⁴¹⁸³

- Ans ☒ A. 72 km/h
☒ B. 85 km/h
☒ C. 66 km/h
☒ D. 75 km/h

Question ID : 441009897496
Option 1 ID : 4410093544054
Option 2 ID : 4410093544055
Option 3 ID : 4410093544056
Option 4 ID : 4410093544057
Status : Answered
Chosen Option : D

Q.6 In a certain code language, 'POUR' is coded as '5719' and 'UNIT' is coded as '2478'. What is the code for 'U' in the given code language?

- Ans ☒ A. 7
 ☐ B. 2
 ☐ C. 4
 ☐ D. 1

Question ID : 4410091313909
Option 1 ID : 4410095187335
Option 2 ID : 4410095187337
Option 3 ID : 4410095187338
Option 4 ID : 4410095187336
Status : Answered
Chosen Option : A

Q.7 Seven boxes A, B, C, F, G, H and I are kept one over the other but not necessarily in the same order. Only two boxes are kept below G. Only two boxes is kept between G and H. Only one box is kept between H and I. A is kept immediately above F. C is kept at some place below B. How many boxes are kept between B and A?

- Ans ☐ A. Three
 ☐ B. Two
 ☒ C. Four
 ☐ D. One

Question ID : 441009789808
Option 1 ID : 4410093113233
Option 2 ID : 4410093113232
Option 3 ID : 4410093113234
Option 4 ID : 4410093113231
Status : Answered
Chosen Option : A

Q.8 Two taps can fill a cistern in 3 hours and 36 hours, respectively. A third tap can empty it in 9 hours. How long (in hours) will it take to fill one-fourth of the empty cistern, if all of them are opened together?²⁰²⁷

- Ans ☐ A. 3
 ☐ B. 4
 ☐ C. 2
 ☒ D. 1

Question ID : 441009518311
Option 1 ID : 4410092028665
Option 2 ID : 4410092028666
Option 3 ID : 4410092028664
Option 4 ID : 4410092028663
Status : Answered
Chosen Option : D

Q.9 KIMP is related to PNRU in a certain way based on the English alphabetical order. In the same way, QOSV is related to VTXA. To which of the following is CAEH related, following the same logic?

- Ans
- ☒ A. HEIM
 - ☒ B. HFIM
 - ☒ C. HFJM
 - ☒ D. HGIM

Question ID : 441009758916
Option 1 ID : 4410092989659
Option 2 ID : 4410092989660
Option 3 ID : 4410092989657
Option 4 ID : 4410092989658
Status : Answered
Chosen Option : C

Q.10 P, Q, R, S, X, Y and Z are sitting around a circular table facing the centre of the table. Only two people sit between P and S when counted from the right of P. Only two people sit between S and R. Only three people sit between P and Q. X sits to the immediate left of Z. Who sits third to the left of Y?

- Ans
- ☒ A. R
 - ☒ B. X
 - ☒ C. Z
 - ☒ D. P

Question ID : 441009763474
Option 1 ID : 4410093007890
Option 2 ID : 4410093007892
Option 3 ID : 4410093007891
Option 4 ID : 4410093007889
Status : Answered
Chosen Option : C

Q.11 A and B can do a piece of work in 11 days and 55 days, respectively. Both work for 3 days and then A goes away and B completed the remaining work alone. The whole work was completed in _____ (days).

- Ans
- ☒ A. 40
 - ☒ B. 38
 - ☒ C. 37
 - ☒ D. 41

Question ID : 441009519612
Option 1 ID : 4410092033867
Option 2 ID : 4410092033870
Option 3 ID : 4410092033868
Option 4 ID : 4410092033869
Status : Answered
Chosen Option : C

Q.12 Each letter in the word CAUSEYS is changed to the letter immediately following it in the English alphabetical order and then all the letters thus formed are arranged in alphabetical order. Which of the following letters will be fourth from the right in the new group of letters thus formed?

- Ans ☒ A. T
 ☐ B. V
 ☐ C. F
 ☐ D. D

Question ID : 441009817309
Option 1 ID : 4410093223361
Option 2 ID : 4410093223362
Option 3 ID : 4410093223360
Option 4 ID : 4410093223359
Status : Answered
Chosen Option : A

Section : Domain Section

Q.1 Which of the following is a disadvantage of doubly reinforced beams compared to singly reinforced beams?

- Ans ☐ A. Less flexibility in design
 ☐ B. Cannot handle reversal of stresses
 ☒ C. Compression steel is often under-stressed, leading to less economical use of materials
 ☐ D. Lower moment capacity

Question ID : 4410091375782
Option 1 ID : 4410095434567
Option 2 ID : 4410095434569
Option 3 ID : 4410095434568
Option 4 ID : 4410095434566
Status : Answered
Chosen Option : A

Q.2 Find the quantity of earthwork excavation required for the circular septic tank of diameter 4 m and operational depth is 2 m. Given the depth of excavation required for the septic tank below ground level is 2.5 m.

- Ans ☐ A. 35.4 cubic meter
 ☒ B. 31.4 cubic meter
 ☐ C. 45.4 cubic meter
 ☐ D. 21.4 cubic meter

Question ID : 4410091395557
Option 1 ID : 4410095511906
Option 2 ID : 4410095511904
Option 3 ID : 4410095511907
Option 4 ID : 4410095511905
Status : Answered
Chosen Option : B

Q.3 Solid concrete blocks are commonly used in place of burnt clay bricks because they:

- Ans**
- ☒ A. Have lower compressive strength
 - ☒ B. Are made of natural clay only
 - ☒ C. Require high maintenance
 - ☒ D. Are economical, strong, and durable

Question ID : 4410091428288
Option 1 ID : 4410095641684
Option 2 ID : 4410095641685
Option 3 ID : 4410095641686
Option 4 ID : 4410095641683
Status : Answered
Chosen Option : D

Q.4 To ensure the durability of concrete structure against sulphate attack, IS 456:2000 recommends:

- Ans**
- ☒ A. Using fine sand only
 - ☒ B. Increasing water content
 - ☒ C. Use of sulphate-resisting cement
 - ☒ D. Reducing the curing period

Question ID : 4410091428329
Option 1 ID : 4410095641850
Option 2 ID : 4410095641847
Option 3 ID : 4410095641848
Option 4 ID : 4410095641849
Status : Answered
Chosen Option : C

Q.5 The resultant of a non-concurrent coplanar force system can be replaced by:

- Ans**
- ☒ A. A force and a couple
 - ☒ B. A couple only
 - ☒ C. A single force
 - ☒ D. A single moment

Question ID : 4410091469861
Option 1 ID : 4410095807384
Option 2 ID : 4410095807383
Option 3 ID : 4410095807382
Option 4 ID : 4410095807385
Status : Answered
Chosen Option : A

Q.6 Vehicle-actuated road traffic signals are preferred when:

- Ans
- ☒ A. Road width is narrow
 - ☒ B. Traffic volume is constant
 - ☒ C. Traffic volumes vary during the day
 - ☒ D. Pedestrian flow is absent

Question ID : 4410091470872
Option 1 ID : 4410095811433
Option 2 ID : 4410095811432
Option 3 ID : 4410095811431
Option 4 ID : 4410095811434
Status : Answered
Chosen Option : C

Q.7 In an under-reinforced concrete beam section, which of the following mechanisms happen first during loading?

- Ans
- ☒ A. Steel reaches yield strain
 - ☒ B. Tensile reinforcement fractures
 - ☒ C. Concrete fails suddenly without necessary warning
 - ☒ D. Concrete reaches ultimate compressive strain

Question ID : 4410091375797
Option 1 ID : 4410095434622
Option 2 ID : 4410095434624
Option 3 ID : 4410095434623
Option 4 ID : 4410095434621
Status : Answered
Chosen Option : A

Q.8 Precast concrete structures often require special design considerations mainly because:

- Ans
- ☒ A. They cannot be reinforced
 - ☒ B. They are weaker than cast-in-situ elements
 - ☒ C. Connections between elements can be complex and critical
 - ☒ D. Concrete cannot be prestressed

Question ID : 4410091559004
Option 1 ID : 4410096158403
Option 2 ID : 4410096158401
Option 3 ID : 4410096158404
Option 4 ID : 4410096158402
Status : Answered
Chosen Option : C

Q.9 In a pipeline, assuming total energy remains constant, the pressure head becomes higher when:

- Ans
- ☐ A. Elevation rises
 - ☐ B. Pipe roughness increases
 - ☐ C. Fluid velocity increases
 - ☒ D. Fluid velocity reduces

Question ID : 4410091377183
Option 1 ID : 4410095440289
Option 2 ID : 4410095440290
Option 3 ID : 4410095440288
Option 4 ID : 4410095440287
Status : Answered
Chosen Option : D

Q.10 Which street inlet type prevents debris entry in sewer systems?

- Ans
- ☒ A. Combined grate and curb inlet
 - ☐ B. Sump pump system
 - ☐ C. Pipe overflow outlet
 - ☐ D. Gutter

Question ID : 4410091409380
Option 1 ID : 4410095566444
Option 2 ID : 4410095566447
Option 3 ID : 4410095566446
Option 4 ID : 4410095566445
Status : Answered
Chosen Option : A

Q.11 What is the effect of frame sway on the effective length factor K of column member?

- Ans
- ☐ A. Sway decreases K making the member more stable
 - ☐ B. Sway translates to a zero K factor
 - ☒ C. Sway increases K indicating higher buckling risk
 - ☐ D. Sway has no effect on K

Question ID : 4410091376410
Option 1 ID : 4410095437196
Option 2 ID : 4410095437199
Option 3 ID : 4410095437197
Option 4 ID : 4410095437198
Status : Answered
Chosen Option : B

Q.12 Which unit in the primary sewage treatment process is used to remove floating grease and oils?

- Ans
- ☒ A. Aerobic digestion unit
 - ☒ B. Chemical coagulation tank
 - ☒ C. Sedimentation tank
 - ☒ D. Skimming tank

Question ID : 4410091409356
Option 1 ID : 4410095566358
Option 2 ID : 4410095566359
Option 3 ID : 4410095566356
Option 4 ID : 4410095566357
Status : Answered
Chosen Option : D

Q.13 Which termite proofing method uses sand or metal meshes to block termite entry?

- Ans
- ☒ A. Chemical barrier
 - ☒ B. Surface coating
 - ☒ C. Biological barrier
 - ☒ D. Physical barrier

Question ID : 4410091430551
Option 1 ID : 4410095650349
Option 2 ID : 4410095650351
Option 3 ID : 4410095650350
Option 4 ID : 4410095650348
Status : Answered
Chosen Option : A

Q.14 Which of the following is NOT an intersection type on highways?

- Ans
- ☒ A. Highway bypass without crossings
 - ☒ B. Grade-separated
 - ☒ C. At-grade
 - ☒ D. Rotary

Question ID : 4410091470870
Option 1 ID : 4410095811426
Option 2 ID : 4410095811424
Option 3 ID : 4410095811423
Option 4 ID : 4410095811425
Status : Answered
Chosen Option : A

Q.15 A drainage system in the foundation of an earthen dam is provided to:

- Ans ☒ A. Increase water pressure
- ☒ B. Collect and safely remove seepage water
- ☒ C. Reduce dam height
- ☒ D. Increase sediment deposition

Question ID : 4410091377230
Option 1 ID : 4410095440479
Option 2 ID : 4410095440480
Option 3 ID : 4410095440481
Option 4 ID : 4410095440482
Status : Answered
Chosen Option : B

Q.16 What is the main purpose of damp-proofing in masonry construction in buildings?

- Ans ☒ A. To improve thermal insulation
- ☒ B. To enhance structural strength
- ☒ C. To prevent water penetration entering the building from external sources
- ☒ D. To stop rising moisture from the ground

Question ID : 4410091357863
Option 1 ID : 4410095363613
Option 2 ID : 4410095363616
Option 3 ID : 4410095363614
Option 4 ID : 4410095363615
Status : Answered
Chosen Option : D

Q.17 In a pre-stressed cable, laying the wires in a helical pattern:

- Ans ☒ A. Improves flexibility and prevents slip
- ☒ B. Reduces flexibility
- ☒ C. Reduces tensile strength significantly
- ☒ D. Is not allowed in pre-stressed concrete

Question ID : 4410091558693
Option 1 ID : 4410096157164
Option 2 ID : 4410096157161
Option 3 ID : 4410096157163
Option 4 ID : 4410096157162
Status : Answered
Chosen Option : A

Q.18 Which of the following is NOT a component of traffic engineering?

- Ans
- ☒ A. Highway geometric design
 - ☒ B. Signal design and control
 - ☒ C. Traffic flow analysis
 - ☒ D. Bridge structural design

Question ID : 4410091470777
Option 1 ID : 4410095811044
Option 2 ID : 4410095811045
Option 3 ID : 4410095811043
Option 4 ID : 4410095811046
Status : Answered
Chosen Option : D

Q.19 Which type of pre-stressed concrete member is more sensitive to shrinkage loss?

- Ans
- ☒ A. Short-span simply supported pre-stressed concrete beam
 - ☒ B. Pre-stressed concrete member without applied pre-stress
 - ☒ C. Small-scale laboratory pre-stressed concrete specimen
 - ☒ D. Long-span continuous post-tensioned concrete member

Question ID : 4410091558703
Option 1 ID : 4410096157203
Option 2 ID : 4410096157206
Option 3 ID : 4410096157205
Option 4 ID : 4410096157204
Status : Answered
Chosen Option : D

Q.20 A “sharp curve ahead” road traffic sign is an example of :

- Ans
- ☒ A. Regulatory sign
 - ☒ B. Informational sign
 - ☒ C. Guide sign
 - ☒ D. Cautionary sign

Question ID : 4410091470812
Option 1 ID : 4410095811192
Option 2 ID : 4410095811194
Option 3 ID : 4410095811193
Option 4 ID : 4410095811191
Status : Answered
Chosen Option : D

Q.21 The standard inclined style of lettering in engineering drawing is written at which angle relative to the horizontal?

- Ans
- ☐ A. Letters are sloped to the right at an angle of about 55° from the horizontal
 - ☐ B. Letters are sloped to the right at an angle of about 45° from the horizontal
 - ☐ C. Letters are sloped to the right at an angle of about 65° from the horizontal
 - ☒ D. Letters are sloped to the right at an angle of about 75° from the horizontal

Question ID : 4410091528906
Option 1 ID : 4410096038757
Option 2 ID : 4410096038758
Option 3 ID : 4410096038756
Option 4 ID : 4410096038755
Status : Answered
Chosen Option : B

Q.22 As per IRC :67-2012, which of the following is a regulatory road traffic sign?

- Ans
- ☐ A. Curve ahead sign
 - ☒ B. Stop sign
 - ☐ C. Tourist direction sign
 - ☐ D. Parking area information

Question ID : 4410091470815
Option 1 ID : 4410095811204
Option 2 ID : 4410095811203
Option 3 ID : 4410095811205
Option 4 ID : 4410095811206
Status : Answered
Chosen Option : B

Q.23 Which of the following factors is NOT considered in the Rational Method of runoff computation?

- Ans
- ☐ A. Runoff coefficient
 - ☒ B. River channel slope
 - ☐ C. Catchment area
 - ☐ D. Rainfall intensity

Question ID : 4410091377254
Option 1 ID : 4410095440577
Option 2 ID : 4410095440578
Option 3 ID : 4410095440576
Option 4 ID : 4410095440575
Status : Answered
Chosen Option : B

Q.24 A continuous beam is:

- Ans
- ☒ A. Always cantilevered
 - ☒ B. Unsupported at ends
 - ☒ C. Supported at only two points
 - ☒ D. Supported at three or more points

Question ID : 4410091470651
Option 1 ID : 4410095810533
Option 2 ID : 4410095810534
Option 3 ID : 4410095810531
Option 4 ID : 4410095810532
Status : Answered
Chosen Option : D

Q.25 Which of the following methods is considered as the standard laboratory procedure for determining the accurate water content of a soil sample?

- Ans
- ☒ A. Oven-drying method at 105°C to 110°C
 - ☒ B. Proctor needle method
 - ☒ C. Calcium carbide method
 - ☒ D. Core cutter method

Question ID : 4410091476643
Option 1 ID : 4410095833867
Option 2 ID : 4410095833868
Option 3 ID : 4410095833866
Option 4 ID : 4410095833869
Status : Answered
Chosen Option : A

Q.26 Which of the following is a suitable foundation treatment for building on expansive clay soil?

- Ans
- ☒ A. Brick footing without DPC
 - ☒ B. Under-reamed pile foundation
 - ☒ C. Shallow strip footing
 - ☒ D. Random rubble masonry

Question ID : 4410091358202
Option 1 ID : 4410095364966
Option 2 ID : 4410095364965
Option 3 ID : 4410095364963
Option 4 ID : 4410095364964
Status : Answered
Chosen Option : B

Q.27 An increase in the compaction energy applied to a soil sample during a Proctor test results in which of the following changes to the Maximum Dry Density ($\gamma_{d(max)}$) and the Optimum Moisture Content (OMC)?

Ans ☒ A. $\gamma_{d(max)}$ will increase, and OMC will decrease.

☐ B. $\gamma_{d(max)}$ will decrease, and OMC will increase.

☐ C. Both $\gamma_{d(max)}$ and OMC will decrease.

☐ D. Both $\gamma_{d(max)}$ and OMC will increase.

Question ID : 4410091476435
Option 1 ID : 4410095833052
Option 2 ID : 4410095833053
Option 3 ID : 4410095833050
Option 4 ID : 4410095833051
Status : Answered
Chosen Option : A

Q.28 What is efflorescence in masonry construction?

Ans ☐ A. A type of fungal growth on damp walls

☐ B. A method of waterproofing walls

☐ C. A chemical used in cement manufacturing

☒ D. A white crystalline deposit formed on masonry surfaces

Question ID : 4410091357900
Option 1 ID : 4410095363762
Option 2 ID : 4410095363764
Option 3 ID : 4410095363763
Option 4 ID : 4410095363761
Status : Answered
Chosen Option : D

Q.29 In IS 456:2000, the limiting moment of resistance of a rectangular singly reinforced section is based on ____.

Ans ☐ A. ultimate tensile strain in concrete

☐ B. percentage of binding wires used

☒ C. limiting depth of Neutral axis

☐ D. compression steel yield strength

Question ID : 4410091375763
Option 1 ID : 4410095434493
Option 2 ID : 4410095434490
Option 3 ID : 4410095434492
Option 4 ID : 4410095434491
Status : Answered
Chosen Option : C

Q.30 While performing direct ranging, if the ranging rod appears shifted right of the alignment, the person at the intermediate point should:

- Ans ☒ A. Move left
- ☐ B. Move right
- ☐ C. Move backward
- ☐ D. Move forward

Question ID : 4410091558608
Option 1 ID : 4410096156823
Option 2 ID : 4410096156824
Option 3 ID : 4410096156822
Option 4 ID : 4410096156821
Status : Answered
Chosen Option : A

Q.31 Which of the following is an indirect impact of transportation on national development?

- Ans ☐ A. Decrease in number of drivers
- ☐ B. Increase in toll taxes
- ☒ C. Development of tourism and related industries
- ☐ D. Increase in vehicle fuel consumption

Question ID : 4410091548092
Option 1 ID : 4410096115076
Option 2 ID : 4410096115075
Option 3 ID : 4410096115073
Option 4 ID : 4410096115074
Status : Answered
Chosen Option : C

Q.32 What is meant by 'loss of prestress' in pre-stressed concrete?

- Ans ☐ A. Reduction in concrete strength
- ☒ B. Decrease in the initial prestressing force that occurs over time
- ☐ C. Expansion of concrete under tension
- ☐ D. Complete failure of tendon

Question ID : 441009310667
Option 1 ID : 4410091209150
Option 2 ID : 4410091209149
Option 3 ID : 4410091209151
Option 4 ID : 4410091209148
Status : Answered
Chosen Option : B

Q.33 Which type of kerb is commonly used for highways with heavy vehicular traffic?

- Ans
- ☐ A. Round kerb
 - ☐ B. Flushed kerb
 - ☐ C. Semi-mountable kerb
 - ☒ D. Barrier kerb

Question ID : 4410091548074
Option 1 ID : 4410096115004
Option 2 ID : 4410096115003
Option 3 ID : 4410096115001
Option 4 ID : 4410096115002
Status : Answered
Chosen Option : D

Q.34 Which of the following is a long-term remedial solution for rising dampness in old masonry walls?

- Ans
- ☐ A. Increasing wall thickness with cement mortar
 - ☐ B. Installing plastic wall coverings
 - ☐ C. Applying surface paint
 - ☒ D. Injecting chemical damp-proofing agents into masonry

Question ID : 4410091358027
Option 1 ID : 4410095364268
Option 2 ID : 4410095364266
Option 3 ID : 4410095364265
Option 4 ID : 4410095364267
Status : Answered
Chosen Option : D

Q.35 For a solid circular shaft of radius 'r', which of the following expressions correctly represents its polar moment of inertia (J) about the centroidal axis?

- Ans
- ☐ A. $J = \frac{\pi r^4}{6}$
 - ☐ B. $J = \frac{\pi r^4}{8}$
 - ☒ C. $J = \frac{\pi r^4}{2}$
 - ☐ D. $J = \frac{\pi r^4}{4}$

Question ID : 4410091535855
Option 1 ID : 4410096066657
Option 2 ID : 4410096066658
Option 3 ID : 4410096066656
Option 4 ID : 4410096066655
Status : Answered
Chosen Option : C

Q.36 According to limit state method, the nominal moment of resistance M_u of a doubly reinforced RCC beam depends on which of the following factors?

Ans ☒ A. Concrete compressive strength only

☒ B. Area of tensile and compression steel and effective depth

☒ C. Area of tensile steel only

☒ D. Beam span only

Question ID : 4410091375836

Option 1 ID : 4410095434787

Option 2 ID : 4410095434786

Option 3 ID : 4410095434785

Option 4 ID : 4410095434788

Status : Answered

Chosen Option : B

Q.37 Which of the following defects in timber is caused by uneven or improper seasoning?

Ans ☒ A. Heart shake

☒ B. Twist

☒ C. Warping

☒ D. Knot

Question ID : 4410091430427

Option 1 ID : 4410095649956

Option 2 ID : 4410095649959

Option 3 ID : 4410095649957

Option 4 ID : 4410095649958

Status : Answered

Chosen Option : A

Q.38 Which rock exploration method is most suitable for obtaining continuous undisturbed soil samples from highly resistant strata for detailed geotechnical analysis?

Ans ☒ A. Wash Boring

☒ B. Rotary drilling with core barrel

☒ C. Auger Boring (Continuous Flight Auger)

☒ D. Percussion Drilling with a chisel bit

Question ID : 4410091476461

Option 1 ID : 4410095833152

Option 2 ID : 4410095833151

Option 3 ID : 4410095833150

Option 4 ID : 4410095833153

Status : Answered

Chosen Option : B

Q.39 A column has both ends hinged (pinned), and its actual length is 3.0 m. What is its effective length?

- Ans ☒ A. 3.0 m
- ☒ B. 6.0 m
- ☒ C. 1.5 m
- ☒ D. 2.1 m

Question ID : 4410091535775
Option 1 ID : 4410096066335
Option 2 ID : 4410096066338
Option 3 ID : 4410096066336
Option 4 ID : 4410096066337
Status : Answered
Chosen Option : A

Q.40 Which of the following factors increases the permeability of soil?

- Ans ☒ A. Increase in particle size
- ☒ B. Presence of adsorbed water on particles
- ☒ C. Decrease in void ratio
- ☒ D. Increase in soil compaction

Question ID : 4410091476527
Option 1 ID : 4410095833412
Option 2 ID : 4410095833413
Option 3 ID : 4410095833410
Option 4 ID : 4410095833411
Status : Answered
Chosen Option : A

Q.41 The principle of transmissibility is invalid when applied to:

- Ans ☒ A. Non-rigid bodies
- ☒ B. Structures under pure tension
- ☒ C. Rigid bodies
- ☒ D. Systems in equilibrium

Question ID : 4410091469906
Option 1 ID : 4410095807559
Option 2 ID : 4410095807561
Option 3 ID : 4410095807558
Option 4 ID : 4410095807560
Status : Answered
Chosen Option : A

Q.42 Dimensional homogeneity of an equation ensures that:

- Ans ☒ A. Equation is numerically valid
- ☒ B. Units on both sides are same
- ☒ C. The equation has no constants
- ☒ D. Time units cancel out

Question ID : 4410091469943
Option 1 ID : 4410095807707
Option 2 ID : 4410095807706
Option 3 ID : 4410095807709
Option 4 ID : 4410095807708
Status : Answered
Chosen Option : B

Q.43 When creating an isometric projection of an object, the edges of the object are drawn so that the three main axes are:

- Ans ☒ A. Perpendicular to each other in space
- ☒ B. Equally spaced along the parallel lines
- ☒ C. Equally inclined at 120° to each other
- ☒ D. Drawn only with vertical and horizontal lines

Question ID : 4410091528882
Option 1 ID : 4410096038672
Option 2 ID : 4410096038673
Option 3 ID : 4410096038671
Option 4 ID : 4410096038674
Status : Answered
Chosen Option : C

Q.44 Several unforeseen expenses in construction project cost is considered under:

- Ans ☒ A. Overhead cost
- ☒ B. Labor cost
- ☒ C. Contingencies
- ☒ D. Agency charges

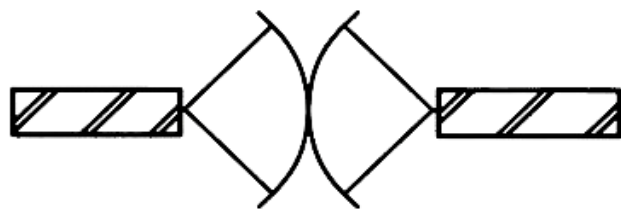
Question ID : 4410091395631
Option 1 ID : 4410095512209
Option 2 ID : 4410095512210
Option 3 ID : 4410095512208
Option 4 ID : 4410095512211
Status : Answered
Chosen Option : A

Q.45 As per IS 456:2000, the unsupported length between end restraints of a column shall NOT exceed ____.

- Ans
- ☐ A. 100 times the least lateral dimension
 - ☐ B. 20 times the least lateral dimension
 - ☐ C. 40 times the least lateral dimension
 - ☒ D. 60 times the least lateral dimension

Question ID : 4410091375700
Option 1 ID : 4410095434236
Option 2 ID : 4410095434237
Option 3 ID : 4410095434234
Option 4 ID : 4410095434235
Status : Answered
Chosen Option : D

Q.46 Identify the type of door symbol, shown below, used in a building drawing as per IS 962 (1989).



- Ans
- ☒ A. Double-leaf double-swing door
 - ☐ B. Single-leaf single-swing door
 - ☐ C. Double-leaf sliding door unit
 - ☐ D. Single-leaf pivoted door unit

Question ID : 4410091528967
Option 1 ID : 4410096038999
Option 2 ID : 4410096039000
Option 3 ID : 4410096039001
Option 4 ID : 4410096039002
Status : Answered
Chosen Option : A

Q.47 Which of the following statements is correct with regards to the total quantity method of estimate?

- Ans
- ☐ A. It is the unit cost method of estimate.
 - ☐ B. It is the approximate method of estimate.
 - ☒ C. It is a systematic approach to calculate probable cost of construction.
 - ☐ D. It is the preliminary estimate.

Question ID : 4410091395618
Option 1 ID : 4410095512157
Option 2 ID : 4410095512156
Option 3 ID : 4410095512159
Option 4 ID : 4410095512158
Status : Answered
Chosen Option : C

Q.48 If reinforcement detailing drawing is not available during the estimate, then what is the approximate quantity of steel as the percentage of concrete for lintels and slabs is taken for computation?

Ans ☒ A. 5% to 10%
 ☒ B. 15% to 18%
 ☒ C. 11% to 14%
 ☒ D. 0.7% to 1%

Question ID : 4410091395575
Option 1 ID : 4410095511977
Option 2 ID : 4410095511979
Option 3 ID : 4410095511978
Option 4 ID : 4410095511976
Status : Answered
Chosen Option : D

Q.49 Penetration-graded bitumen 60/70 is suitable for:

Ans ☒ A. Low traffic rural roads
 ☒ B. Airport runway pavements
 ☒ C. Heavy traffic roads in hot regions
 ☒ D. Temporary construction roads

Question ID : 4410091428356
Option 1 ID : 4410095641956
Option 2 ID : 4410095641957
Option 3 ID : 4410095641955
Option 4 ID : 4410095641958
Status : Answered
Chosen Option : C

Q.50 The zero-point error in EDM distance measurement is eliminated by:

Ans ☒ A. Increasing modulation wavelength
 ☒ B. Using dual-frequency ED waves
 ☒ C. Performing baseline calibration
 ☒ D. Using relaxation oscillators

Question ID : 4410091558548
Option 1 ID : 4410096156587
Option 2 ID : 4410096156586
Option 3 ID : 4410096156585
Option 4 ID : 4410096156588
Status : Answered
Chosen Option : B

Q.51 What is the primary mechanism responsible for shear resistance in most cohesionless soils under normal conditions?

Ans ☒ A. Cementation caused by mineral deposits

☒ B. Frictional resistance between soil particles

☒ C. Capillary forces in saturated soils

☒ D. Cohesion due to chemical bonding

Question ID : 4410091476650

Option 1 ID : 4410095833896

Option 2 ID : 4410095833895

Option 3 ID : 4410095833897

Option 4 ID : 4410095833894

Status : Answered

Chosen Option : B

Q.52 Which of the following is a preventive measure against efflorescence in masonry construction?

Ans ☒ A. Applying excessive water during curing

☒ B. Ensuring proper drainage and using low-alkali materials

☒ C. Using high-alkali cement

☒ D. Painting walls before they dry

Question ID : 4410091357912

Option 1 ID : 4410095363810

Option 2 ID : 4410095363811

Option 3 ID : 4410095363809

Option 4 ID : 4410095363812

Status : Answered

Chosen Option : B

Q.53 Which factor is NOT considered under obligatory points in alignment selection?

Ans ☒ A. Existing railway overpass location

☒ B. Desired location for a future township

☒ C. Existing temple or heritage structure

☒ D. Mandatory crossing point due to terrain

Question ID : 4410091548085

Option 1 ID : 4410096115046

Option 2 ID : 4410096115048

Option 3 ID : 4410096115045

Option 4 ID : 4410096115047

Status : Answered

Chosen Option : B

Q.54 As per CPCB standards, the maximum permissible limit of suspended solids for discharge into inland surface water is:

- Ans
- ☒ A. 50 mg/L
 - ☒ B. 100 mg/L
 - ☒ C. 150 mg/L
 - ☒ D. 10 mg/L

Question ID : 4410091409340
Option 1 ID : 4410095566297
Option 2 ID : 4410095566298
Option 3 ID : 4410095566299
Option 4 ID : 4410095566296
Status : Not Answered
Chosen Option : --

Q.55 Which factor is least important in kerb design?

- Ans
- ☒ A. Road signage colour
 - ☒ B. Pedestrian safety
 - ☒ C. Drainage requirement
 - ☒ D. Vehicle speed

Question ID : 4410091470808
Option 1 ID : 4410095811178
Option 2 ID : 4410095811177
Option 3 ID : 4410095811176
Option 4 ID : 4410095811175
Status : Answered
Chosen Option : A

Q.56 Which of the following is an effective remedial measure for treating dampness in old masonry structures?

- Ans
- ☒ A. Covering walls with plastic sheets
 - ☒ B. Applying a thick layer of paint
 - ☒ C. Installing a damp-proof course and using chemical injection into masonry walls.
 - ☒ D. Increasing wall thickness

Question ID : 4410091358006
Option 1 ID : 4410095364187
Option 2 ID : 4410095364185
Option 3 ID : 4410095364186
Option 4 ID : 4410095364188
Status : Answered
Chosen Option : C

Q.57 Maximum slope of a simply supported beam with a central point load P using Macaulay method occurs at:

Ans ☒ A. Midspan

☒ B. Zero along beam

☒ C. $L/4$ from supports

☒ D. Supports

Question ID : 4410091470699

Option 1 ID : 4410095810720

Option 2 ID : 4410095810722

Option 3 ID : 4410095810721

Option 4 ID : 4410095810719

Status : Answered

Chosen Option : D

Q.58 Highly plastic clays (CH) generally cause which of the following foundation issues?

Ans ☒ A. Negligible settlement

☒ B. High stability under different moisture conditions

☒ C. Very high bearing capacity in rainy season

☒ D. Large shrinkage and swelling movements

Question ID : 4410091430403

Option 1 ID : 4410095649913

Option 2 ID : 4410095649915

Option 3 ID : 4410095649912

Option 4 ID : 4410095649914

Status : Answered

Chosen Option : D

Q.59 The effective length of a column depends on its end conditions, which determine how the column can buckle under axial load. Which of the following end conditions corresponds to the shortest effective length for a column of the given actual length?

Ans ☒ A. Both ends fixed (restrained against rotation)

☒ B. One end fixed and the other free

☒ C. Both ends pinned (hinged)

☒ D. One end fixed and the other pinned

Question ID : 4410091535709

Option 1 ID : 4410096066076

Option 2 ID : 4410096066077

Option 3 ID : 4410096066075

Option 4 ID : 4410096066078

Status : Answered

Chosen Option : A

Q.60 Auto levels need more care during transportation because:

Ans ☒ A. Their telescopes cannot be rotated

☒ B. They are heavier

☒ C. They have delicate internal compensators

☒ D. They are used only indoors

Question ID : 4410091558639

Option 1 ID : 4410096156949

Option 2 ID : 4410096156947

Option 3 ID : 4410096156946

Option 4 ID : 4410096156948

Status : Answered

Chosen Option : C

Q.61 Which of the following is a correct assumption in Euler's theory of columns?

Ans ☒ A. Short columns failing primarily by crushing are well predicted by Euler's formula.

☒ B. The column has a varying cross-section along its length.

☒ C. The column material may be inelastic or non-homogeneous.

☒ D. The column is initially perfectly straight and subjected to axial load.

Question ID : 4410091535753

Option 1 ID : 4410096066250

Option 2 ID : 4410096066248

Option 3 ID : 4410096066249

Option 4 ID : 4410096066247

Status : Answered

Chosen Option : D

Q.62 In Railway Engineering, the ends of two rails are connected using:

Ans ☒ A. Rail screws

☒ B. Fish plates

☒ C. Dog spikes

☒ D. Sleepers

Question ID : 4410091548027

Option 1 ID : 4410096114819

Option 2 ID : 4410096114818

Option 3 ID : 4410096114820

Option 4 ID : 4410096114817

Status : Answered

Chosen Option : B

Q.63 Which of the following is a primary application of flow net analysis in geotechnical engineering?

- Ans ☒ A. Designing the compressive strength of concrete
- ☒ B. Calculating soil compaction parameters
- ☒ C. Measuring soil moisture content
- ☒ D. Estimating the rate of seepage under hydraulic structures

Question ID : 4410091476546
Option 1 ID : 4410095833486
Option 2 ID : 4410095833488
Option 3 ID : 4410095833489
Option 4 ID : 4410095833487
Status : Answered
Chosen Option : D

Q.64 In gravity flow pipelines, the fluid flow is:

- Ans ☒ A. Driven by pumps
- ☒ B. Independent of pipe slope
- ☒ C. Driven by the potential energy due to elevation difference
- ☒ D. Driven by pressure only

Question ID : 4410091377185
Option 1 ID : 4410095440295
Option 2 ID : 4410095440298
Option 3 ID : 4410095440297
Option 4 ID : 4410095440296
Status : Answered
Chosen Option : C

Q.65 Which of the following property is most useful for distinguishing between igneous, sedimentary, and metamorphic rocks in the field?

- Ans ☒ A. Primary fabric and texture
- ☒ B. Exact chemical composition by mass
- ☒ C. Specific mineral hardness of Mohs = 7
- ☒ D. Presence of vesicles

Question ID : 4410091476494
Option 1 ID : 4410095833282
Option 2 ID : 4410095833283
Option 3 ID : 4410095833284
Option 4 ID : 4410095833285
Status : Answered
Chosen Option : B

Q.66 Loss of pre-stress due to friction in post-tensioned cables occurs mainly because of:

- Ans
- ☒ A. Increase in concrete strength over time
 - ☒ B. Variation in modulus of elasticity of steel
 - ☒ C. Curvature and wobble of the cable in the duct
 - ☒ D. Slip at the anchorages of tendons

Question ID : 4410091558711
Option 1 ID : 4410096157241
Option 2 ID : 4410096157238
Option 3 ID : 4410096157240
Option 4 ID : 4410096157239
Status : Answered
Chosen Option : D

Q.67 The Constant Head Permeability test is the preferred laboratory method for determining the coefficient of permeability (k), for which of the following soil types?

- Ans
- ☒ A. Coarse-grained soils like sands and gravels
 - ☒ B. Saturated fine-grained soils below the water table only
 - ☒ C. Highly organic soils like peats
 - ☒ D. Fine-grained soils like clays and silts

Question ID : 4410091476521
Option 1 ID : 4410095833387
Option 2 ID : 4410095833386
Option 3 ID : 4410095833388
Option 4 ID : 4410095833389
Status : Answered
Chosen Option : A

Q.68 In differential levelling, the line of sight of the level instrument is assumed to be:

- Ans
- ☒ A. Along a vertical surface
 - ☒ B. Along a horizontal surface
 - ☒ C. Coincident with the plumb line
 - ☒ D. Along the slope of the terrain

Question ID : 4410091558649
Option 1 ID : 4410096156986
Option 2 ID : 4410096156987
Option 3 ID : 4410096156989
Option 4 ID : 4410096156988
Status : Answered
Chosen Option : B

Q.69 Which of the following materials is commonly used for waterproofing in masonry construction?

- Ans
- ☒ A. Lime mortar
 - ☒ B. Fly ash
 - ☒ C. Bituminous coating
 - ☒ D. Sandstone aggregate

Question ID : 4410091357875
Option 1 ID : 4410095363661
Option 2 ID : 4410095363663
Option 3 ID : 4410095363662
Option 4 ID : 4410095363664
Status : Answered
Chosen Option : C

Q.70 In pipes connected in series, the velocity of flow in each pipe is:

- Ans
- ☒ A. the same
 - ☒ B. always maximum in smallest pipe
 - ☒ C. always minimum in largest pipe
 - ☒ D. different depending on diameter

Question ID : 4410091377169
Option 1 ID : 4410095440231
Option 2 ID : 4410095440233
Option 3 ID : 4410095440234
Option 4 ID : 4410095440232
Status : Answered
Chosen Option : D

Q.71 A steel rod of cross-section 100 mm^2 carries an axial load of 50 kN. The normal stress is:

- Ans
- ☒ A. 5 MPa
 - ☒ B. 50 MPa
 - ☒ C. 0.5 MPa
 - ☒ D. 500 MPa

Question ID : 4410091470618
Option 1 ID : 4410095810401
Option 2 ID : 4410095810400
Option 3 ID : 4410095810402
Option 4 ID : 4410095810399
Status : Answered
Chosen Option : D

Q.72 Which sewage type contains only sink and laundry wastewater?

- Ans ☒ A. Greywater household waste
- ☐ B. Storm water runoff
- ☐ C. Blackwater toilet sewage
- ☐ D. Industrial chemical sewage

Question ID : 4410091409379
Option 1 ID : 4410095566442
Option 2 ID : 4410095566441
Option 3 ID : 4410095566440
Option 4 ID : 4410095566443
Status : Answered
Chosen Option : A

Q.73 Which chemical parameter indicates organic pollution in water quality assessment?

- Ans ☒ A. Biochemical oxygen demand
- ☐ B. Total hardness
- ☐ C. pH level
- ☐ D. Chloride ion concentration

Question ID : 4410091409404
Option 1 ID : 4410095566541
Option 2 ID : 4410095566542
Option 3 ID : 4410095566540
Option 4 ID : 4410095566543
Status : Answered
Chosen Option : A

Q.74 Which statement best describes the effect of wall movement on earth pressure?

- Ans ☒ A. Passive earth pressure develops when the wall pushes into the soil causing soil compression and shear resistance.
- ☐ B. Wall movement does not affect earth pressure if soil is cohesionless.
- ☐ C. When a retaining wall moves toward the soil, earth pressure decreases to active pressure.
- ☐ D. When a retaining wall moves away from the soil, earth pressure increases to passive pressure.

Question ID : 4410091476421
Option 1 ID : 4410095832996
Option 2 ID : 4410095832997
Option 3 ID : 4410095832995
Option 4 ID : 4410095832994
Status : Answered
Chosen Option : A

Q.75 The three-moment equation is used for the analysis of which of the following?

- Ans
- ☒ A. Cantilever beams
 - ☒ B. Continuous beams
 - ☒ C. Columns
 - ☒ D. Simply supported beams only

Question ID : 4410091470670
Option 1 ID : 4410095810604
Option 2 ID : 4410095810603
Option 3 ID : 4410095810606
Option 4 ID : 4410095810605
Status : Answered
Chosen Option : B

Q.76 The Mohr-Coulomb failure criterion defines the maximum shear stress (τ) a soil can withstand before failure occurs. Which parameters of soil are primarily used to describe this failure envelope?

- Ans
- ☒ A. Particle size distribution and specific gravity
 - ☒ B. Void ratio and permittivity
 - ☒ C. Cohesion (c) and internal friction angle (ϕ)
 - ☒ D. Water content and pore pressure

Question ID : 4410091476663
Option 1 ID : 4410095833949
Option 2 ID : 4410095833947
Option 3 ID : 4410095833946
Option 4 ID : 4410095833948
Status : Answered
Chosen Option : C

Q.77 For a continuous beam with fixed and hinged ends, sum of distribution factors at a joint is:

- Ans
- ☒ A. Depends on number of members
 - ☒ B. 0
 - ☒ C. 1
 - ☒ D. 0.5

Question ID : 4410091470678
Option 1 ID : 4410095810638
Option 2 ID : 4410095810636
Option 3 ID : 4410095810635
Option 4 ID : 4410095810637
Status : Answered
Chosen Option : C

Q.78 Which of the following is commonly used as pre-stressing wire in pre-stressed concrete?

Ans ☒ A. Aluminium wire of standard structural grade

☒ B. Cold drawn high tensile steel wire for pre-stressing

☒ C. Mild steel wire of ordinary tensile strength

☒ D. Copper wire of common engineering grade

Question ID : 4410091558696

Option 1 ID : 4410096157175

Option 2 ID : 4410096157174

Option 3 ID : 4410096157173

Option 4 ID : 4410096157176

Status : Answered

Chosen Option : B

Q.79 According to IS 456:2000, the effective length of a column is independent of which of the following?

Ans ☒ A. Frame type (braced/unbraced)

☒ B. Loads acting on the frame

☒ C. Unsupported height of the column

☒ D. Beam connectivity about major and minor axis of column cross section

Question ID : 4410091375724

Option 1 ID : 4410095434330

Option 2 ID : 4410095434333

Option 3 ID : 4410095434332

Option 4 ID : 4410095434331

Status : Answered

Chosen Option : B

Q.80 According to the BIS (IS: 1498) soil classification system, which of the following is the correct categorisation of coarse-grained soils?

Ans ☒ A. Soils in which more than half of the material is larger than 75 micron sieve size

☒ B. Soils in which more than half of the material is finer than 75 micron sieve size

☒ C. Soils with high plasticity index only

☒ D. Soils composed entirely of organic matter

Question ID : 4410091476597

Option 1 ID : 4410095833687

Option 2 ID : 4410095833686

Option 3 ID : 4410095833689

Option 4 ID : 4410095833688

Status : Answered

Chosen Option : A

Q.81 Which of the following is a primary necessity of irrigation?

- Ans ☒ A. To reduce labor cost
- ☒ B. To reduce sunlight exposure
- ☒ C. To increase land slope
- ☒ D. To increase crop yield

Question ID : 4410091377225
Option 1 ID : 4410095440452
Option 2 ID : 4410095440454
Option 3 ID : 4410095440453
Option 4 ID : 4410095440451
Status : Answered
Chosen Option : D

Q.82 The most suitable method for constructing rural roads and low-volume concrete pavements is:

- Ans ☒ A. Roller-compacted concrete paving
- ☒ B. Fixed-form paving
- ☒ C. Precast slab paving
- ☒ D. Slip-form paving

Question ID : 4410091548060
Option 1 ID : 4410096114947
Option 2 ID : 4410096114946
Option 3 ID : 4410096114948
Option 4 ID : 4410096114945
Status : Answered
Chosen Option : A

Q.83 Which factor in selection of intake structure location, ensures availability of clean water for distribution?

- Ans ☒ A. Low pollution upstream
- ☒ B. Proximity to industries
- ☒ C. Shallow water depth
- ☒ D. High sediment load

Question ID : 4410091409406
Option 1 ID : 4410095566551
Option 2 ID : 4410095566548
Option 3 ID : 4410095566550
Option 4 ID : 4410095566549
Status : Answered
Chosen Option : A

Q.84 A 50 N force makes an angle of 60° with the horizontal. Its vertical component is:

Ans ☒ A. 43.3 N

☒ B. 25 N

☒ C. 30 N

☒ D. 50 N

Question ID : 4410091469901

Option 1 ID : 4410095807539

Option 2 ID : 4410095807538

Option 3 ID : 4410095807540

Option 4 ID : 4410095807541

Status : Answered

Chosen Option : A

Q.85 Which of the following statements correctly distinguishes plastering from pointing in masonry construction?

Ans ☒ A. Plastering covers the entire surface; pointing treats only mortar joints.

☒ B. Plastering is used only for decorative purposes.

☒ C. Plastering is done only on ceilings, while pointing is done on walls.

☒ D. Pointing is more expensive than plastering.

Question ID : 4410091357850

Option 1 ID : 4410095363562

Option 2 ID : 4410095363564

Option 3 ID : 4410095363561

Option 4 ID : 4410095363563

Status : Answered

Chosen Option : A

Q.86 When a force is applied at a distance from the centroid of a rigid body, it produces:

Ans ☒ A. Translation only

☒ B. Both translation and rotation

☒ C. Rotation only

☒ D. No effect

Question ID : 4410091469886

Option 1 ID : 4410095807478

Option 2 ID : 4410095807479

Option 3 ID : 4410095807481

Option 4 ID : 4410095807480

Status : Answered

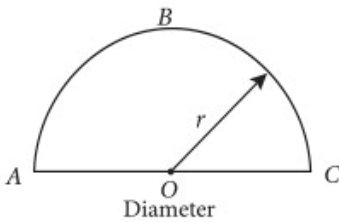
Chosen Option : B

Q.87 The application of prestress in post-tensioning is achieved using:

- Ans ☒ A. Hammers
 ☒ B. Vibrators
 ☒ C. Concrete mixers
 ☒ D. Jacks and anchorages

Question ID : 4410091558729
Option 1 ID : 4410096157312
Option 2 ID : 4410096157310
Option 3 ID : 4410096157313
Option 4 ID : 4410096157311
Status : Answered
Chosen Option : D

Q.88 A semicircular section of radius (r) is placed with its diameter along AC, as shown in the figure. According to standard semicircle properties, what is the moment of inertia of the semicircular section about the base AC?



- Ans ☒ A. $0.785 \times r^4$
 ☒ B. $0.197 \times r^4$
 ☒ C. $0.110 \times r^4$
 ☒ D. $0.393 \times r^4$

Question ID : 4410091535821
Option 1 ID : 4410096066521
Option 2 ID : 4410096066522
Option 3 ID : 4410096066520
Option 4 ID : 4410096066519
Status : Answered
Chosen Option : A

Q.89 Which of the following is NOT a scalar quantity?

- Ans ☒ A. Acceleration
 ☒ B. Temperature
 ☒ C. Work
 ☒ D. Energy

Question ID : 4410091469939
Option 1 ID : 4410095807692
Option 2 ID : 4410095807690
Option 3 ID : 4410095807691
Option 4 ID : 4410095807693
Status : Answered
Chosen Option : A

Q.90 The purpose of a 'blanket layer' between ballast and subgrade is NOT to:

- Ans ☒ A. Prevent intrusion of fines into ballast
- ☒ B. Improve drainage
- ☒ C. Reduce stress on subgrade
- ☒ D. Increase rail bending resistance

Question ID : 4410091548011
Option 1 ID : 4410096114757
Option 2 ID : 4410096114759
Option 3 ID : 4410096114758
Option 4 ID : 4410096114760
Status : Answered
Chosen Option : A

Q.91 The Plasticity Index (I_p) of a soil sample is a key indicator of its degree of plasticity and is mathematically defined as the difference between which two Atterberg Limits?

- Ans ☒ A. The Liquid Limit (wL) and the Plastic Limit (wp).
- ☒ B. The Plastic Limit (wp) and the natural moisture content (wn).
- ☒ C. The Shrinkage Limit (ws) and the Plastic Limit (wp).
- ☒ D. The Liquid Limit (wL) and the Shrinkage Limit (ws).

Question ID : 4410091476619
Option 1 ID : 4410095833770
Option 2 ID : 4410095833771
Option 3 ID : 4410095833773
Option 4 ID : 4410095833772
Status : Answered
Chosen Option : A

Q.92 Which of the following cases commonly require consideration of shear-lag effect when used as tension members?

- Ans ☒ A. Solid rectangular bar with central bolted connection
- ☒ B. Circular solid bar with full-area splice
- ☒ C. Tee (T) section connected through its stem only
- ☒ D. Hollow circular tube with welded end plate

Question ID : 4410091376465
Option 1 ID : 4410095437408
Option 2 ID : 4410095437411
Option 3 ID : 4410095437409
Option 4 ID : 4410095437410
Status : Answered
Chosen Option : C

Q.93 Which of the following is NOT used as pre-stressing steel?

- Ans ☒ A. High tensile strands
 ☒ B. Bars with high yield strength
 ☒ C. Mild steel bars
 ☒ D. Cold drawn steel wires

Question ID : 4410091558686
Option 1 ID : 4410096157133
Option 2 ID : 4410096157135
Option 3 ID : 4410096157134
Option 4 ID : 4410096157132
Status : Answered
Chosen Option : C

Q.94 A building elevation mainly represents which aspect when viewed from a specific direction?

- Ans ☒ A. The internal arrangement of rooms and service locations
 ☒ B. The structural reinforcement layout used in the building frame
 ☒ C. The external appearance of the building from that particular side
 ☒ D. The total floor area measured inside the boundary walls

Question ID : 4410091528963
Option 1 ID : 4410096038985
Option 2 ID : 4410096038986
Option 3 ID : 4410096038983
Option 4 ID : 4410096038984
Status : Answered
Chosen Option : C

Q.95 The radius of gyration of a circular area of radius 'r' about its centroidal x-x axis is:

- Ans ☒ A. $\frac{r}{4}$
 ☒ B. $\frac{r}{2}$
 ☒ C. $\frac{r}{5}$
 ☒ D. $\frac{r}{3}$

Question ID : 4410091535836
Option 1 ID : 4410096066581
Option 2 ID : 4410096066580
Option 3 ID : 4410096066582
Option 4 ID : 4410096066579
Status : Answered
Chosen Option : B

Q.96 In a truss, zero-force members occur when:

Ans  **A. Two non-collinear members meet at a joint without external load**

 **B. External load acts directly on a specific joint only**

 **C. All truss members carry forces of equal magnitude**

 **D. The overall truss system becomes indeterminate in form**

Question ID : **4410091470690**
Option 1 ID : **4410095810683**
Option 2 ID : **4410095810684**
Option 3 ID : **4410095810686**
Option 4 ID : **4410095810685**
Status : **Answered**
Chosen Option : **A**

