

SJVNL ET

**Previous Year Paper
(Civil)
14 Aug, 2025 Shift 1**



एसजेवीएन लिमिटेड

SJVN Limited

(भारत सरकार एवं हिमाचल प्रदेश सरकार का संयुक्त उपक्रम)

(A Joint Venture of Govt. of India & Govt. of Himachal Pradesh)

नवरातन सी. पी. एस. ई.

A Navratna CPSE

CIN No : L40101HP1988GOI008409



Participant ID	
Participant Name	
Test Center Name	
Test Date	14/08/2025
Test Time	9:00 AM - 11:00 AM
Subject	Executive Trainee Civil

Section : Subject Related

Q.1	According to The Environment (Protection) Rules, 1986, what is the effluent discharge standard of suspended solids into inland surface waters?
Ans	<div><div><div>✗ 1. 1000 mg/L</div><div>✗ 2. 500 mg/L</div><div>✗ 3. 200 mg/L</div><div>✓ 4. 100 mg/L</div></div></div>

Question ID :	441009982962
Option 1 ID :	4410093884323
Option 2 ID :	4410093884322
Option 3 ID :	4410093884321
Option 4 ID :	4410093884320
Status :	Answered
Chosen Option :	2

Q.2	The radius of a simple circular curve primarily affects:
Ans	<div><div><div>✗ 1. chain of apex</div><div>✗ 2. area under the curve</div><div>✓ 3. length of the curve</div><div>✗ 4. elevation difference</div></div></div>

Question ID :	4410091072650
Option 1 ID :	4410094228068
Option 2 ID :	4410094228069
Option 3 ID :	4410094228067
Option 4 ID :	4410094228066
Status :	Answered
Chosen Option :	3

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Q.3 In which primary location are bearing stiffeners typically provided in a plate girder?

- Ans ☒ 1. At support points and under concentrated loads
- ☐ 2. Along the entire length of the web at regular intervals
- ☐ 3. Along the top flange only
- ☐ 4. Only at the mid-span of the girder

Question ID :	441009922895
Option 1 ID :	4410093645721
Option 2 ID :	4410093645722
Option 3 ID :	4410093645724
Option 4 ID :	4410093645723
Status :	Answered
Chosen Option :	1

Q.4 According to the CPHEEO guidelines, which sewer shape is ideal from load bearing point of view in public roads and hydraulically efficient for varying flows in domestic wastewater system?

- Ans ☐ 1. Horse-shoe
- ☐ 2. Ovoid
- ☐ 3. Rectangular
- ☒ 4. Circular

Question ID :	441009982722
Option 1 ID :	4410093883345
Option 2 ID :	4410093883344
Option 3 ID :	4410093883347
Option 4 ID :	4410093883346
Status :	Answered
Chosen Option :	1

Q.5 What is the modulus of elasticity of structural steel up to grade Fe 500?

- Ans ☒ 1. 200 GPa
- ☐ 2. 300 GPa
- ☐ 3. 250 GPa
- ☐ 4. 150 GPa

Question ID :	441009927582
Option 1 ID :	4410093664362
Option 2 ID :	4410093664365
Option 3 ID :	4410093664364
Option 4 ID :	4410093664363
Status :	Answered
Chosen Option :	1

Q.6 Answer the following Assertion Reason question, with respect to negative skin friction in pile.

Assertion (A): Negative skin friction increases the pile load capacity.
Reason(R): Negative skin friction causes downward drag in piles.

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

Question ID :	441009994236
Option 1 ID :	4410093929043
Option 2 ID :	4410093929045
Option 3 ID :	4410093929044
Option 4 ID :	4410093929042
Status :	Answered
Chosen Option :	2

Q.7 As per IS 456: 2000, the maximum area of compression (longitudinal) reinforcement in any column should not exceed _____.

- Ans ☒ 1. 8% of gross cross-sectional area of column
- ☒ 2. 6% of gross cross-sectional area of column
- ☒ 3. 5% of gross cross-sectional area of column
- ☒ 4. 4% of gross cross-sectional area of column

Question ID :	441009930237
Option 1 ID :	4410093674817
Option 2 ID :	4410093674816
Option 3 ID :	4410093674815
Option 4 ID :	4410093674814
Status :	Answered
Chosen Option :	2

Q.8 In a cantilever beam subjected to a downward load at the free end, the top fibre experiences:

- Ans ☒ 1. tensile stress
- ☒ 2. no stress
- ☒ 3. compressive stress
- ☒ 4. only shear stress

Question ID :	441009950294
Option 1 ID :	4410093754611
Option 2 ID :	4410093754609
Option 3 ID :	4410093754610
Option 4 ID :	4410093754612
Status :	Answered
Chosen Option :	1

Q.9	Which of the following is commonly used as an air-entraining agent?
Ans	<div><div><div><div></div></div><div>1. Fly ash</div></div><div><div><div></div></div><div>2. Vinsol resin</div></div><div><div><div></div></div><div>3. Silica fume</div></div><div><div><div></div></div><div>4. Calcium chloride</div></div></div>

Question ID :	441009943760
Option 1 ID :	4410093728639
Option 2 ID :	4410093728638
Option 3 ID :	4410093728641
Option 4 ID :	4410093728640
Status :	Answered
Chosen Option :	2

Q.10	Which of the following loads does NOT result in axial force in the members of an ideal pin-jointed truss?
Ans	<div><div><div><div></div></div><div>1. Bending load</div></div><div><div><div></div></div><div>2. Wind load</div></div><div><div><div></div></div><div>3. Temperature load</div></div><div><div><div></div></div><div>4. Dead load</div></div></div>

Question ID :	441009990211
Option 1 ID :	4410093913042
Option 2 ID :	4410093913040
Option 3 ID :	4410093913041
Option 4 ID :	4410093913039
Status :	Answered
Chosen Option :	1

Q.11	Which of the following was NOT a recommendation of the Jayakar Committee?
Ans	<div><div><div><div></div></div><div>1. Formation of CRR1</div></div><div><div><div></div></div><div>2. Formation of a semi-official technical body</div></div><div><div><div></div></div><div>3. Road development as a national interest</div></div><div><div><div></div></div><div>4. Levying extra tax on diesel</div></div></div>

Question ID :	441009975174
Option 1 ID :	4410093853725
Option 2 ID :	4410093853727
Option 3 ID :	4410093853726
Option 4 ID :	4410093853728
Status :	Answered
Chosen Option :	4

Q.1 2	Which of the following quantities are unknowns in a slope deflection equation for beam element?
Ans	<input checked="" type="checkbox"/> 1. Width and depth of beam
	<input checked="" type="checkbox"/> 2. Internal hinge forces
	<input checked="" type="checkbox"/> 3. Load intensity on beam
	<input checked="" type="checkbox"/> 4. Joint rotations and displacements

Question ID :	441009964499
Option 1 ID :	4410093811327
Option 2 ID :	4410093811329
Option 3 ID :	4410093811326
Option 4 ID :	4410093811328
Status :	Answered
Chosen Option :	4

Q.1 3	For a clay layer at a site, the time required for 50% consolidation is 5 years. Find the time required for its 90% consolidation, if the clay layer has single drainage. Take $T_{50} = 0.2$ and $T_{90} = 0.8$.
Ans	<input checked="" type="checkbox"/> 1. 22.5 years
	<input checked="" type="checkbox"/> 2. 25 years
	<input checked="" type="checkbox"/> 3. 2.5 years
	<input checked="" type="checkbox"/> 4. 20 years

Question ID :	441009995958
Option 1 ID :	4410093935830
Option 2 ID :	4410093935831
Option 3 ID :	4410093935832
Option 4 ID :	4410093935829
Status :	Answered
Chosen Option :	4

Q.1 4	In the unified soil classification system, the symbol M is used to represent:
Ans	<input checked="" type="checkbox"/> 1. medium plastic soil
	<input checked="" type="checkbox"/> 2. medium compressible soil
	<input checked="" type="checkbox"/> 3. silt
	<input checked="" type="checkbox"/> 4. sand

Question ID :	441009994422
Option 1 ID :	4410093929759
Option 2 ID :	4410093929758
Option 3 ID :	4410093929760
Option 4 ID :	4410093929761
Status :	Answered
Chosen Option :	3

Q.1 5	Which of the following inspection types is performed during the execution to ensure compliance before the task is complete?
Ans	<input checked="" type="checkbox"/> 1. Preliminary inspection
	<input checked="" type="checkbox"/> 2. Final inspection
	<input checked="" type="checkbox"/> 3. Stage inspection
	<input checked="" type="checkbox"/> 4. Primary inspection

Question ID :	441009950386
Option 1 ID :	4410093754981
Option 2 ID :	4410093754982
Option 3 ID :	4410093754984
Option 4 ID :	4410093754983
Status :	Marked For Review
Chosen Option :	3

Q.1 6	Frequency analysis of point rainfall helps in:
Ans	<input checked="" type="checkbox"/> 1. Flood forecasting and design of drainage systems
	<input checked="" type="checkbox"/> 2. Estimate the soil infiltration rate during storms
	<input checked="" type="checkbox"/> 3. Assess the sediment load in rivers following rainfall
	<input checked="" type="checkbox"/> 4. Soil classification

Question ID :	441009903769
Option 1 ID :	4410093568926
Option 2 ID :	4410093568927
Option 3 ID :	4410093568928
Option 4 ID :	4410093568929
Status :	Answered
Chosen Option :	1

Q.1 7	As per the Biomedical Waste Management Rules, 2016, which colour-coded bag is designated for the collection of infectious biomedical waste such as soiled dressings, cotton swabs and body fluids?
Ans	<input checked="" type="checkbox"/> 1. Yellow
	<input checked="" type="checkbox"/> 2. Blue
	<input checked="" type="checkbox"/> 3. Green
	<input checked="" type="checkbox"/> 4. Red

Question ID :	441009982742
Option 1 ID :	4410093883427
Option 2 ID :	4410093883424
Option 3 ID :	4410093883425
Option 4 ID :	4410093883426
Status :	Marked For Review
Chosen Option :	1

Q.1 8 In a large topographic survey, the principle ‘working from whole to part’ is applied by initially establishing a high-precision control network and then subdividing. What is the primary benefit of this approach?

- Ans
- ☒ 1. Minimises total field staff required
 - ☒ 2. Reduces overall equipment expenses
 - ☒ 3. Enables faster plotting of survey data
 - ☒ 4. Localises and contains cumulative error

Question ID :	4410091072821
Option 1 ID :	4410094228757
Option 2 ID :	4410094228755
Option 3 ID :	4410094228754
Option 4 ID :	4410094228756
Status :	Answered
Chosen Option :	4

Q.1 9 Which of the following types of aggregate shapes is best for achieving high workability in concrete?

- Ans
- ☒ 1. Flaky
 - ☒ 2. Elongated
 - ☒ 3. Angular
 - ☒ 4. Rounded

Question ID :	441009941589
Option 1 ID :	4410093720009
Option 2 ID :	4410093720011
Option 3 ID :	4410093720008
Option 4 ID :	4410093720010
Status :	Answered
Chosen Option :	4

Q.2 0 Which of the following is a performance-limiting factor specific to rigid pavements and not flexible pavements?

- Ans
- ☒ 1. Subgrade drainage
 - ☒ 2. Thermal expansion and contraction
 - ☒ 3. Soil compaction
 - ☒ 4. CBR value fluctuation

Question ID :	441009976171
Option 1 ID :	4410093857575
Option 2 ID :	4410093857576
Option 3 ID :	4410093857574
Option 4 ID :	4410093857577
Status :	Answered
Chosen Option :	2

Q.2 1	The main components of runoff are:
Ans	✓ 1. surface runoff, interflow and baseflow
	✗ 2. rainfall and snowfall
	✗ 3. infiltration and evaporation
	✗ 4. groundwater and percolation

Question ID :	441009917295
Option 1 ID :	4410093623484
Option 2 ID :	4410093623485
Option 3 ID :	4410093623483
Option 4 ID :	4410093623486
Status :	Answered
Chosen Option :	1

Q.2 2	Which of the following statements is true for uniform flow of viscous fluid in an open channel?
Ans	✗ 1. Pressure remains constant due to viscosity.
	✗ 2. Viscosity has no role since the flow is uniform.
	✗ 3. Flow is always turbulent.
	✓ 4. Viscosity creates velocity gradients along depth.

Question ID :	441009753486
Option 1 ID :	4410092967904
Option 2 ID :	4410092967901
Option 3 ID :	4410092967903
Option 4 ID :	4410092967902
Status :	Marked For Review
Chosen Option :	4

Q.2 3	As per the CPHEEO guidelines, the peak factor used in pipe design is used to calculate which water use condition?
Ans	✓ 1. Maximum month, maximum day, and peak hour demand
	✗ 2. Minimum night flow in the distribution system
	✗ 3. Fire flow requirement for emergency conditions
	✗ 4. Average annual and seasonal water demand

Question ID :	441009982684
Option 1 ID :	4410093883192
Option 2 ID :	4410093883194
Option 3 ID :	4410093883195
Option 4 ID :	4410093883193
Status :	Answered
Chosen Option :	1

Q.2	How does water-cement (W/C) ratio affect the durability of concrete?
4	
Ans	<input checked="" type="checkbox"/> 1. W/C ratio does not affect durability.
	<input checked="" type="checkbox"/> 2. Higher W/C ratio reduces porosity and increases durability.
	<input checked="" type="checkbox"/> 3. Higher W/C ratio increases strength and reduces permeability.
	<input checked="" type="checkbox"/> 4. Lower W/C ratio reduces permeability and improves durability.

Question ID :	441009941619
Option 1 ID :	4410093720130
Option 2 ID :	4410093720131
Option 3 ID :	4410093720128
Option 4 ID :	4410093720129
Status :	Answered
Chosen Option :	4

Q.2	Critical flow in an open channel is characterised by which of the following conditions?
5	
Ans	<input checked="" type="checkbox"/> 1. Maximum specific energy
	<input checked="" type="checkbox"/> 2. Maximum flow depth
	<input checked="" type="checkbox"/> 3. Froude number equals unity
	<input checked="" type="checkbox"/> 4. Zero flow velocity

Question ID :	441009753525
Option 1 ID :	4410092968063
Option 2 ID :	4410092968064
Option 3 ID :	4410092968062
Option 4 ID :	4410092968061
Status :	Answered
Chosen Option :	3

Q.2	How many bricks (size 20 cm × 10 cm × 10 cm) are required, approximately, for brickwork of 10 m ³ (neglect the thickness of mortar)?
6	
Ans	<input checked="" type="checkbox"/> 1. 4000
	<input checked="" type="checkbox"/> 2. 4100
	<input checked="" type="checkbox"/> 3. 4500
	<input checked="" type="checkbox"/> 4. 5000

Question ID :	441009924433
Option 1 ID :	4410093651882
Option 2 ID :	4410093651881
Option 3 ID :	4410093651883
Option 4 ID :	4410093651880
Status :	Answered
Chosen Option :	4

Q.2 7	Which one of the following formulae can be used for the computation of velocity in gravity flow sewers?
Ans	<input checked="" type="checkbox"/> 1. Darcy-Weisbach equation
	<input checked="" type="checkbox"/> 2. Hazen-Williams equation
	<input checked="" type="checkbox"/> 3. Manning's formula
	<input checked="" type="checkbox"/> 4. Bernoulli's equation

Question ID :	441009988830
Option 1 ID :	4410093907626
Option 2 ID :	4410093907627
Option 3 ID :	4410093907625
Option 4 ID :	4410093907628
Status :	Answered
Chosen Option :	3

Q.2 8	Which sign indicates that all previous prohibitions notified by signs are no longer applicable?
Ans	<input checked="" type="checkbox"/> 1. Speed Limit sign
	<input checked="" type="checkbox"/> 2. Compulsory Turn sign
	<input checked="" type="checkbox"/> 3. Restriction Ends sign
	<input checked="" type="checkbox"/> 4. Give Way sign

Question ID :	441009976087
Option 1 ID :	4410093857261
Option 2 ID :	4410093857259
Option 3 ID :	4410093857258
Option 4 ID :	4410093857260
Status :	Answered
Chosen Option :	3

Q.2 9	Which phenomenon causes rails to move longitudinally due to acceleration and braking?
Ans	<input checked="" type="checkbox"/> 1. Buckling
	<input checked="" type="checkbox"/> 2. Hogging
	<input checked="" type="checkbox"/> 3. Creep
	<input checked="" type="checkbox"/> 4. Warping

Question ID :	4410091050011
Option 1 ID :	4410094149117
Option 2 ID :	4410094149118
Option 3 ID :	4410094149119
Option 4 ID :	4410094149120
Status :	Marked For Review
Chosen Option :	2

Q.3	In the force method of analysis, Maxwell's theorem relates the:
0	
Ans	<input checked="" type="checkbox"/> 1. deflection at a point due to a unit force at the same point
	<input checked="" type="checkbox"/> 2. deflection at a point to rotation at another point
	<input checked="" type="checkbox"/> 3. displacement at one point due to unit load at another point
	<input checked="" type="checkbox"/> 4. internal forces to displacement

Question ID :	441009964494
Option 1 ID :	4410093811308
Option 2 ID :	4410093811307
Option 3 ID :	4410093811309
Option 4 ID :	4410093811306
Status :	Answered
Chosen Option :	3

Q.3	If the structure is linearly elastic, the deflection at a point in a structure using
1	Castigliano's theorem is given by _____ (where U is total strain energy stored in the structure, P is externally applied load and M is moment developed in the structure).
Ans	<input checked="" type="checkbox"/> 1. $\frac{\partial M}{\partial U}$
	<input checked="" type="checkbox"/> 2. $\frac{\partial P}{\partial U}$
	<input checked="" type="checkbox"/> 3. $\frac{\partial U}{\partial P}$
	<input checked="" type="checkbox"/> 4. $\frac{\partial U}{\partial M}$

Question ID :	441009964496
Option 1 ID :	4410093811315
Option 2 ID :	4410093811317
Option 3 ID :	4410093811316
Option 4 ID :	4410093811314
Status :	Answered
Chosen Option :	3

Q.3	When a 50 mm diameter cone is used for dynamic cone penetration test, the relation
2	between dynamic cone penetration resistance (N_{cd}) and standard penetration test number (N) is given as $N_{cd} = C \times N$. The value of C _____ with depth of soil.
Ans	<input checked="" type="checkbox"/> 1. remains the same
	<input checked="" type="checkbox"/> 2. only increases
	<input checked="" type="checkbox"/> 3. first increases and then decreases
	<input checked="" type="checkbox"/> 4. only decreases

Question ID :	441009982622
Option 1 ID :	4410093882956
Option 2 ID :	4410093882953
Option 3 ID :	4410093882955
Option 4 ID :	4410093882954
Status :	Marked For Review
Chosen Option :	2

Q.3
3

Identify the correct statements.
A: Sensitivity of soil is determined using the values of unconfined compressive strength.
B: Thixotropy means loss of shear strength of soil.
C: Activity depends on percentage of clay particles present in the soil.
D: Sensitivity is determined using activity values of soil.

Ans

☒ 1. Only A and D

☒ 2. Only B and D

☒ 3. Only A and C

☒ 4. Only B and C

Question ID :	441009994415
Option 1 ID :	4410093929733
Option 2 ID :	4410093929732
Option 3 ID :	4410093929730
Option 4 ID :	4410093929731
Status :	Answered
Chosen Option :	3

Q.3
4

A stepped steel bar consists of two segments connected in series:
Segment AB: 200 mm long, 400 mm² area
Segment BC: 300 mm long, 600 mm² area
An axial tensile load of 20 kN is applied at the free end A. Take = 200 GPa. What is the total elongation of the entire bar?

Ans

☒ 1. 0.10 mm

☒ 2. 0.25 mm

☒ 3. 0.20 mm

☒ 4. 0.15 mm

Question ID :	441009950244
Option 1 ID :	4410093754413
Option 2 ID :	4410093754416
Option 3 ID :	4410093754415
Option 4 ID :	4410093754414
Status :	Answered
Chosen Option :	1

Q.3
5

Under what condition are the anaerobic ponds particularly suited for the treatment of wastewater?

Ans

☒ 1. High temperature and high strength industrial wastewater

☒ 2. Low temperature

☒ 3. High oxygen

☒ 4. Low pH

Question ID :	441009983043
Option 1 ID :	4410093884646
Option 2 ID :	4410093884647
Option 3 ID :	4410093884644
Option 4 ID :	4410093884645
Status :	Marked For Review
Chosen Option :	1

Q.3 6	For which of the following construction works can auger boring be suitable?
Ans	<input checked="" type="checkbox"/> 1. High rise structures
	<input checked="" type="checkbox"/> 2. Highways and railways
	<input checked="" type="checkbox"/> 3. Earthen dams
	<input checked="" type="checkbox"/> 4. Pile foundation

Question ID :	441009982460
Option 1 ID :	4410093882309
Option 2 ID :	4410093882308
Option 3 ID :	4410093882306
Option 4 ID :	4410093882307
Status :	Answered
Chosen Option :	2

Q.3 7	In a diversion head work, which structure prevents entry of silt into the canal by allowing only surface water to enter?
Ans	<input checked="" type="checkbox"/> 1. Silt ejector
	<input checked="" type="checkbox"/> 2. Sediment trap
	<input checked="" type="checkbox"/> 3. Silt excluder
	<input checked="" type="checkbox"/> 4. Canal fall

Question ID :	441009889897
Option 1 ID :	4410093513557
Option 2 ID :	4410093513556
Option 3 ID :	4410093513555
Option 4 ID :	4410093513554
Status :	Answered
Chosen Option :	3

Q.3 8	As per IS 456:2000, the maximum spacing of vertical stirrups (shear reinforcement) along the longitudinal axis of a beam should NOT exceed _____, where 'd' is the effective depth of the section under consideration.
Ans	<input checked="" type="checkbox"/> 1. d or 300 mm, whichever is less
	<input checked="" type="checkbox"/> 2. 0.5 d or 300 mm, whichever is less
	<input checked="" type="checkbox"/> 3. 0.75 d or 300 mm, whichever is less
	<input checked="" type="checkbox"/> 4. 0.75 d or 450 mm, whichever is less

Question ID :	441009927392
Option 1 ID :	4410093663637
Option 2 ID :	4410093663634
Option 3 ID :	4410093663636
Option 4 ID :	4410093663635
Status :	Answered
Chosen Option :	3

Q.3 9	During reconnaissance for a triangulation scheme, which of the following factors is NOT routinely considered?
Ans	<input checked="" type="checkbox"/> 1. Accessibility of station points for field parties
	<input checked="" type="checkbox"/> 2. Ground conductivity of the area
	<input checked="" type="checkbox"/> 3. Line-of-sight between proposed stations
	<input checked="" type="checkbox"/> 4. Physical obstructions such as trees or buildings

Question ID :	4410091072639
Option 1 ID :	4410094228024
Option 2 ID :	4410094228023
Option 3 ID :	4410094228022
Option 4 ID :	4410094228025
Status :	Marked For Review
Chosen Option :	4

Q.4 0	As compared to proctor test, modified proctor test is used for soil testing when pavements are:
Ans	<input checked="" type="checkbox"/> 1. subjected to light loads
	<input checked="" type="checkbox"/> 2. flexible pavements
	<input checked="" type="checkbox"/> 3. subjected to good drainage conditions
	<input checked="" type="checkbox"/> 4. subjected to heavy loads

Question ID :	441009996000
Option 1 ID :	4410093935986
Option 2 ID :	4410093935988
Option 3 ID :	4410093935987
Option 4 ID :	4410093935985
Status :	Answered
Chosen Option :	4

Q.4 1	Which property of natural stones makes it suitable for use in load-bearing structures?
Ans	<input checked="" type="checkbox"/> 1. Higher compressive strength
	<input checked="" type="checkbox"/> 2. Higher thermal conductivity
	<input checked="" type="checkbox"/> 3. High elasticity
	<input checked="" type="checkbox"/> 4. Greater porosity

Question ID :	441009927496
Option 1 ID :	4410093664040
Option 2 ID :	4410093664041
Option 3 ID :	4410093664039
Option 4 ID :	4410093664038
Status :	Answered
Chosen Option :	1

Q.4 2	As per IS 10500:2012, what is the primary problem caused by the excessive growth of algae in raw surface water sources used for public water supply?
Ans	<div><div><input type="checkbox"/></div><div>1. Elevated heavy metal concentrations</div></div>
	<div><div><input type="checkbox"/></div><div>2. High dissolved oxygen levels causing pipe corrosion</div></div>
	<div><div><input checked="" type="checkbox"/></div><div>3. Clogging and taste–odour issues during treatment</div></div>
	<div><div><input type="checkbox"/></div><div>4. Increased hardness in treated water</div></div>

Question ID :	441009978658
Option 1 ID :	4410093867274
Option 2 ID :	4410093867275
Option 3 ID :	4410093867273
Option 4 ID :	4410093867276
Status :	Answered
Chosen Option :	3

Q.4 3	Which of the following hydraulic structures is used to collect water directly from river or lake for public water supply?
Ans	<div><div><input type="checkbox"/></div><div>1. Jack well</div></div>
	<div><div><input checked="" type="checkbox"/></div><div>2. Intake structure</div></div>
	<div><div><input type="checkbox"/></div><div>3. Aqueduct</div></div>
	<div><div><input type="checkbox"/></div><div>4. Service reservoir</div></div>

Question ID :	441009978693
Option 1 ID :	4410093867424
Option 2 ID :	4410093867421
Option 3 ID :	4410093867422
Option 4 ID :	4410093867423
Status :	Answered
Chosen Option :	2

Q.4 4	Which of the following statements is true about pre-tensioned concrete?
Ans	<div><div><input checked="" type="checkbox"/></div><div>1. It develops bond stress between concrete and steel after hardening.</div></div>
	<div><div><input type="checkbox"/></div><div>2. It is usually cast on site.</div></div>
	<div><div><input type="checkbox"/></div><div>3. The prestressing force is applied after concrete gains strength.</div></div>
	<div><div><input type="checkbox"/></div><div>4. It requires ducts for tendon placement.</div></div>

Question ID :	441009930281
Option 1 ID :	4410093674989
Option 2 ID :	4410093674987
Option 3 ID :	4410093674988
Option 4 ID :	4410093674986
Status :	Marked For Review
Chosen Option :	1

Q.4	Which characteristic is NOT typically associated with rock jointing?
5	
Ans	<input checked="" type="checkbox"/> 1. Interconnected networks of cracks
	<input checked="" type="checkbox"/> 2. A gap in sediment deposition
	<input checked="" type="checkbox"/> 3. Little or no displacement
	<input checked="" type="checkbox"/> 4. Systematic, planar fractures

Question ID :	441009883598
Option 1 ID :	4410093488359
Option 2 ID :	4410093488360
Option 3 ID :	4410093488361
Option 4 ID :	4410093488358
Status :	Marked For Review
Chosen Option :	2

Q.4	A transition curve is used between:
6	
Ans	<input checked="" type="checkbox"/> 1. a straight and a circular curve
	<input checked="" type="checkbox"/> 2. tangents only
	<input checked="" type="checkbox"/> 3. two circular curves
	<input checked="" type="checkbox"/> 4. two vertical curves

Question ID :	4410091072672
Option 1 ID :	4410094228154
Option 2 ID :	4410094228155
Option 3 ID :	4410094228153
Option 4 ID :	4410094228152
Status :	Answered
Chosen Option :	1

Q.4	For shop welds, the partial safety factor (γ_{mw}), as per IS 800: 2007, is ____.
7	
Ans	<input checked="" type="checkbox"/> 1. 1.5
	<input checked="" type="checkbox"/> 2. 1
	<input checked="" type="checkbox"/> 3. 1.1
	<input checked="" type="checkbox"/> 4. 1.25

Question ID :	441009922785
Option 1 ID :	4410093645292
Option 2 ID :	4410093645289
Option 3 ID :	4410093645290
Option 4 ID :	4410093645291
Status :	Marked For Review
Chosen Option :	4

Q.4	What is the primary objective of crashing in a network?
8	
Ans	<input checked="" type="checkbox"/> 1. Reduce the number of activities
	<input checked="" type="checkbox"/> 2. Shorten project duration
	<input checked="" type="checkbox"/> 3. Increase float
	<input checked="" type="checkbox"/> 4. Minimise cost

Question ID :	441009927621
Option 1 ID :	4410093664518
Option 2 ID :	4410093664520
Option 3 ID :	4410093664521
Option 4 ID :	4410093664519
Status :	Answered
Chosen Option :	2

Q.4	The base period of a paddy crop is 120 days. What does it mean?
9	
Ans	<input checked="" type="checkbox"/> 1. Irrigation is supplied for 120 days
	<input checked="" type="checkbox"/> 2. Crop takes 120 days to grow
	<input checked="" type="checkbox"/> 3. Rainfall occurs for 120 days
	<input checked="" type="checkbox"/> 4. Soil is moist for 120 days

Question ID :	441009884276
Option 1 ID :	4410093491052
Option 2 ID :	4410093491051
Option 3 ID :	4410093491053
Option 4 ID :	4410093491054
Status :	Answered
Chosen Option :	1

Q.5	The main objective of conducting a recuperation test in an open well is to:
0	
Ans	<input checked="" type="checkbox"/> 1. To assess the chemical quality of the groundwater
	<input checked="" type="checkbox"/> 2. Calculate evaporation from open water surface
	<input checked="" type="checkbox"/> 3. Determine the yield capacity of an open well
	<input checked="" type="checkbox"/> 4. Estimate recharge rate of aquifer

Question ID :	441009917588
Option 1 ID :	4410093624419
Option 2 ID :	4410093624420
Option 3 ID :	4410093624417
Option 4 ID :	4410093624418
Status :	Answered
Chosen Option :	4

Q.5	The Compaction Factor Test is more accurate than the Slump Test for:
1	
Ans	<input checked="" type="checkbox"/> 1. high workability concrete
	<input checked="" type="checkbox"/> 2. high slump concrete
	<input checked="" type="checkbox"/> 3. low workability concrete
	<input checked="" type="checkbox"/> 4. air-entrained concrete

Question ID :	441009941694
Option 1 ID :	4410093720436
Option 2 ID :	4410093720439
Option 3 ID :	4410093720437
Option 4 ID :	4410093720438
Status :	Answered
Chosen Option :	1

Q.5	Which of the following artificial materials is used for thermal insulation in buildings?
2	
Ans	<input checked="" type="checkbox"/> 1. Timber
	<input checked="" type="checkbox"/> 2. Concrete
	<input checked="" type="checkbox"/> 3. Glass wool
	<input checked="" type="checkbox"/> 4. Limestone

Question ID :	441009927508
Option 1 ID :	4410093664088
Option 2 ID :	4410093664087
Option 3 ID :	4410093664086
Option 4 ID :	4410093664089
Status :	Answered
Chosen Option :	3

Q.5	In a bar chart used in construction project management, what does the horizontal length of each bar represent?
3	
Ans	<input checked="" type="checkbox"/> 1. Quantity of work
	<input checked="" type="checkbox"/> 2. Duration of the activity
	<input checked="" type="checkbox"/> 3. Labor requirement
	<input checked="" type="checkbox"/> 4. Resource allocation

Question ID :	441009950378
Option 1 ID :	4410093754949
Option 2 ID :	4410093754951
Option 3 ID :	4410093754950
Option 4 ID :	4410093754952
Status :	Answered
Chosen Option :	2

Q.5	What is the ruling design speed (in km/hr) for non-urban 2-lane National Highways in plain terrain, as per IRC : 73 - 2023?
4	
Ans	<input checked="" type="checkbox"/> 1. 80
	<input checked="" type="checkbox"/> 2. 120
	<input checked="" type="checkbox"/> 3. 100
	<input checked="" type="checkbox"/> 4. 90

Question ID :	441009975987
Option 1 ID :	4410093856882
Option 2 ID :	4410093856885
Option 3 ID :	4410093856884
Option 4 ID :	4410093856883
Status :	Marked For Review
Chosen Option :	1

Q.5	In a compound bar consisting of two different materials rigidly connected, when subjected to axial loading, their strain will be:
5	
Ans	<input checked="" type="checkbox"/> 1. Equal
	<input checked="" type="checkbox"/> 2. Different
	<input checked="" type="checkbox"/> 3. Proportional to their modulus
	<input checked="" type="checkbox"/> 4. Inversely proportional to their area

Question ID :	441009950247
Option 1 ID :	4410093754426
Option 2 ID :	4410093754425
Option 3 ID :	4410093754427
Option 4 ID :	4410093754428
Status :	Marked For Review
Chosen Option :	1

Q.5	In triaxial loading, if all three principal stresses are equal, the stress state is termed:
6	
Ans	<input checked="" type="checkbox"/> 1. Pure bending
	<input checked="" type="checkbox"/> 2. Pure shear
	<input checked="" type="checkbox"/> 3. Uniaxial
	<input checked="" type="checkbox"/> 4. Hydrostatic

Question ID :	441009950246
Option 1 ID :	4410093754422
Option 2 ID :	4410093754421
Option 3 ID :	4410093754424
Option 4 ID :	4410093754423
Status :	Answered
Chosen Option :	4

Q.5 Which of the following is a structural method to reduce evaporation losses in canals or tanks?
7

- Ans
- ☒ 1. Increasing the width
 - ☒ 2. Reducing the surface area
 - ☒ 3. Increasing flow velocity
 - ☒ 4. Lining the canal

Question ID :	441009903838
Option 1 ID :	4410093569198
Option 2 ID :	4410093569199
Option 3 ID :	4410093569201
Option 4 ID :	4410093569200
Status :	Answered
Chosen Option :	2

Q.5 What is the mechanical cleaning method used for coarse screens in the grit chamber of a sewage treatment plant?
8

- Ans
- ☒ 1. Manual removal of debris
 - ☒ 2. Continuous raking mechanism
 - ☒ 3. Air scouring of the bars
 - ☒ 4. Backwashing with treated effluent

Question ID :	441009983062
Option 1 ID :	4410093884721
Option 2 ID :	4410093884722
Option 3 ID :	4410093884723
Option 4 ID :	4410093884720
Status :	Marked For Review
Chosen Option :	2

Q.5 Which type of earthen dam has uniform material throughout its section?
9

- Ans
- ☒ 1. Zoned dam
 - ☒ 2. Diaphragm dam
 - ☒ 3. Homogeneous dam
 - ☒ 4. Composite dam

Question ID :	441009889961
Option 1 ID :	4410093513810
Option 2 ID :	4410093513811
Option 3 ID :	4410093513812
Option 4 ID :	4410093513813
Status :	Answered
Chosen Option :	3

Q.6 0	What distinguishes a stiffened seated connection from an unstiffened seated connection?
Ans	<div><div><div>✖</div><div>1. Use of weld instead of bolts</div></div></div>
	<div><div><div>✖</div><div>2. Use of longer bolts</div></div></div>
	<div><div><div>✔</div><div>3. Addition of a web stiffener plate under the beam web</div></div></div>
	<div><div><div>✖</div><div>4. Absence of a seat angle</div></div></div>

Question ID :	441009922846
Option 1 ID :	4410093645532
Option 2 ID :	4410093645529
Option 3 ID :	4410093645530
Option 4 ID :	4410093645531
Status :	Answered
Chosen Option :	3

Q.6 1	What is the volume of a 50 kg cement bag (in m ³)?
Ans	<div><div><div>✖</div><div>1. 1.226</div></div></div>
	<div><div><div>✖</div><div>2. 1.262</div></div></div>
	<div><div><div>✖</div><div>3. 0.334</div></div></div>
	<div><div><div>✔</div><div>4. 0.0347</div></div></div>

Question ID :	441009924740
Option 1 ID :	4410093653099
Option 2 ID :	4410093653102
Option 3 ID :	4410093653101
Option 4 ID :	4410093653100
Status :	Answered
Chosen Option :	3

Q.6 2	Which of the following is a typical characteristic of igneous rocks?
Ans	<div><div><div>✖</div><div>1. Fossil content</div></div></div>
	<div><div><div>✔</div><div>2. Interlocking crystals</div></div></div>
	<div><div><div>✖</div><div>3. Layered texture</div></div></div>
	<div><div><div>✖</div><div>4. Grain sorting</div></div></div>

Question ID :	441009883559
Option 1 ID :	4410093488203
Option 2 ID :	4410093488204
Option 3 ID :	4410093488202
Option 4 ID :	4410093488205
Status :	Answered
Chosen Option :	2

Q.6 3	Which of the following is a primary advantage of using timber in construction over RCC?
Ans	<input checked="" type="checkbox"/> 1. Resistance to fire
	<input checked="" type="checkbox"/> 2. High compressive strength
	<input checked="" type="checkbox"/> 3. Low thermal conductivity
	<input checked="" type="checkbox"/> 4. Ease of workability

Question ID :	441009927430
Option 1 ID :	4410093663784
Option 2 ID :	4410093663782
Option 3 ID :	4410093663785
Option 4 ID :	4410093663783
Status :	Answered
Chosen Option :	3

Q.6 4	Which of the following properties of soil is NOT related to SPT number?
Ans	<input checked="" type="checkbox"/> 1. Specific gravity of soil solids
	<input checked="" type="checkbox"/> 2. Relative density of soil
	<input checked="" type="checkbox"/> 3. Unconfined compressive strength of cohesive soil
	<input checked="" type="checkbox"/> 4. Angle of internal friction of non cohesive soil

Question ID :	441009982519
Option 1 ID :	4410093882541
Option 2 ID :	4410093882540
Option 3 ID :	4410093882539
Option 4 ID :	4410093882538
Status :	Answered
Chosen Option :	1

Q.6 5	Calculate the active pressure at the base of an 8 m high retaining wall. The properties of backfill soil are as mentioned: $c' = 20$ kPa, $K_a = 0.36$, $\gamma = 20$ kN/m ³ . Use Rankine's theory.
Ans	<input checked="" type="checkbox"/> 1. 57.4 kPa
	<input checked="" type="checkbox"/> 2. 48 kPa
	<input checked="" type="checkbox"/> 3. 24 kPa
	<input checked="" type="checkbox"/> 4. 33.6 kPa

Question ID :	441009982818
Option 1 ID :	4410093883729
Option 2 ID :	4410093883731
Option 3 ID :	4410093883730
Option 4 ID :	4410093883728
Status :	Answered
Chosen Option :	1

Q.6	Which of the following is an example of a natural construction material?
6	
Ans	<input checked="" type="checkbox"/> 1. Concrete
	<input checked="" type="checkbox"/> 2. Brick
	<input checked="" type="checkbox"/> 3. Steel
	<input checked="" type="checkbox"/> 4. Timber

Question ID :	441009927492
Option 1 ID :	4410093664022
Option 2 ID :	4410093664023
Option 3 ID :	4410093664025
Option 4 ID :	4410093664024
Status :	Answered
Chosen Option :	4

Q.6	What is the value of reaction time used by IRC for calculating stopping sight distance?
7	
Ans	<input checked="" type="checkbox"/> 1. 2.0 seconds
	<input checked="" type="checkbox"/> 2. 2.5 seconds
	<input checked="" type="checkbox"/> 3. 1.5 seconds
	<input checked="" type="checkbox"/> 4. 3.0 seconds

Question ID :	441009975963
Option 1 ID :	4410093856790
Option 2 ID :	4410093856792
Option 3 ID :	4410093856791
Option 4 ID :	4410093856793
Status :	Answered
Chosen Option :	2

Q.6	Which of the following correctly pairs a transportation mode with its advantage?
8	
Ans	<input checked="" type="checkbox"/> 1. Airways – suitable for transporting heavy machinery
	<input checked="" type="checkbox"/> 2. Waterways – minimum energy required per unit load
	<input checked="" type="checkbox"/> 3. Roadways – most rigid in terms of timing and route
	<input checked="" type="checkbox"/> 4. Railways – door-to-door service

Question ID :	4410091049634
Option 1 ID :	4410094147628
Option 2 ID :	4410094147629
Option 3 ID :	4410094147627
Option 4 ID :	4410094147626
Status :	Answered
Chosen Option :	2

Q.69	In a closed traverse, the compass rule (Bowditch method) distributes the total linear misclosure proportionally to each traverse leg. Which fundamental principle does this method employ?
Ans	<div><div><input checked="" type="checkbox"/></div>1. Error compensation based on individual leg lengths</div> <div><div><input type="checkbox"/></div>2. Assigning equal error to each leg</div> <div><div><input type="checkbox"/></div>3. Absolute removal of blunder without redistribution</div> <div><div><input type="checkbox"/></div>4. Proportional error distribution based on bearing only</div>

Question ID :	4410091072824
Option 1 ID :	4410094228768
Option 2 ID :	4410094228766
Option 3 ID :	4410094228769
Option 4 ID :	4410094228767
Status :	Answered
Chosen Option :	1

Q.70	Which material property is essential for computing the self-weight of a plate girder?
Ans	<div><div><input type="checkbox"/></div>1. Young's modulus of steel</div> <div><div><input type="checkbox"/></div>2. Poisson's ratio of steel</div> <div><div><input type="checkbox"/></div>3. Ductility ratio of steel</div> <div><div><input checked="" type="checkbox"/></div>4. Density of steel</div>

Question ID :	441009922883
Option 1 ID :	4410093645674
Option 2 ID :	4410093645673
Option 3 ID :	4410093645676
Option 4 ID :	4410093645675
Status :	Answered
Chosen Option :	4

Q.71	In ductile detailing, the load transfer in beam-column joints is primarily ensured by:
Ans	<div><div><input type="checkbox"/></div>1. using under-reinforced sections only</div> <div><div><input checked="" type="checkbox"/></div>2. providing adequate development length</div> <div><div><input type="checkbox"/></div>3. reducing the moment of inertia</div> <div><div><input type="checkbox"/></div>4. increasing the cover thickness</div>

Question ID :	441009950367
Option 1 ID :	4410093754907
Option 2 ID :	4410093754906
Option 3 ID :	4410093754905
Option 4 ID :	4410093754908
Status :	Answered
Chosen Option :	2

Q.7 2 For determination of bearing capacity of foundation at depth D, using static cone penetration test, IS:6403 gives graph between the ratio of net ultimate bearing capacity to static cone penetration resistance (q_{nu}/q_c) versus the width B of the foundation, for three different ratios of D/B. These three ratios are _____.

- Ans ☒ 1. 0, 0.5 and 1
- ☐ ☒ 2. 1.5, 2 and 2.5
- ☐ ☒ 3. 0.5, 1 and 1.5
- ☐ ☒ 4. 1, 1.5 and 2

Question ID : 441009983262

Option 1 ID : 4410093885510

Option 2 ID : 4410093885513

Option 3 ID : 4410093885511

Option 4 ID : 4410093885512

Status : Answered

Chosen Option : 3

Q.7 3 Which of the following applications uses pressure filters in water treatment process?

- Ans ☐ ☒ 1. Raw water treatment
- ☐ ☒ 2. Large municipal plants
- ☐ ☒ 3. Large Communities
- ☐ ☒ 4. Industrial plant

Question ID : 441009982620

Option 1 ID : 4410093882947

Option 2 ID : 4410093882945

Option 3 ID : 4410093882946

Option 4 ID : 4410093882948

Status : Answered

Chosen Option : 4

Q.7 4 According to the National Ambient Air Quality Standards in India, which of the following is a major air pollutant?

- Ans ☐ ☒ 1. Chlorophyll
- ☐ ☒ 2. Sodium
- ☐ ☒ 3. Oxygen
- ☐ ☒ 4. Nitrogen Dioxide

Question ID : 441009982803

Option 1 ID : 4410093883670

Option 2 ID : 4410093883668

Option 3 ID : 4410093883669

Option 4 ID : 4410093883671

Status : Answered

Chosen Option : 4

Q.7	Identify the correct statement with respect to effective stress and pore water pressure.
5	
Ans	✓ 1. Pore water pressure is negative above the water table in a capillary zone.
	✗ 2. Pore water pressure is negative below the water table in a saturation zone.
	✗ 3. Pore water pressure is always negative.
	✗ 4. Pore water pressure is always positive.

Question ID :	441009994448
Option 1 ID :	4410093929864
Option 2 ID :	4410093929865
Option 3 ID :	4410093929862
Option 4 ID :	4410093929863
Status :	Answered
Chosen Option :	1

Q.7	Which of the following is NOT a characteristic of a hydraulic jump?
6	
Ans	✗ 1. Energy loss due to turbulence
	✗ 2. Sudden rise in water depth
	✗ 3. Formation of rollers and eddies
	✓ 4. Flow remaining supercritical

Question ID :	441009773277
Option 1 ID :	4410093047110
Option 2 ID :	4410093047109
Option 3 ID :	4410093047112
Option 4 ID :	4410093047111
Status :	Answered
Chosen Option :	4

Q.7	Which of the following is NOT the importance of inviting tenders for execution of work?
7	
Ans	✗ 1. Selecting the best contractor
	✓ 2. Influenced consent of the parties
	✗ 3. Legal and contractual protection
	✗ 4. Transparency in the procurement process

Question ID :	441009924596
Option 1 ID :	4410093652525
Option 2 ID :	4410093652527
Option 3 ID :	4410093652526
Option 4 ID :	4410093652524
Status :	Answered
Chosen Option :	2

Q.7	Which factor DOES NOT directly affect the permissible velocity in a lined channel?
8	
Ans	<input checked="" type="checkbox"/> 1. Channel slope
	<input checked="" type="checkbox"/> 2. Flow turbulence
	<input checked="" type="checkbox"/> 3. Type of lining
	<input checked="" type="checkbox"/> 4. Water temperature

Question ID :	441009889662
Option 1 ID :	4410093512608
Option 2 ID :	4410093512609
Option 3 ID :	4410093512606
Option 4 ID :	4410093512607
Status :	Answered
Chosen Option :	4

Q.7	What is the effect of increasing the carbon content in steel?
9	
Ans	<input checked="" type="checkbox"/> 1. Increases strength
	<input checked="" type="checkbox"/> 2. Decreases hardness
	<input checked="" type="checkbox"/> 3. Decreases density
	<input checked="" type="checkbox"/> 4. Increases ductility

Question ID :	441009927530
Option 1 ID :	4410093664176
Option 2 ID :	4410093664175
Option 3 ID :	4410093664177
Option 4 ID :	4410093664174
Status :	Answered
Chosen Option :	1

Q.8	What physical quantity does the average drag coefficient relate to?
0	
Ans	<input checked="" type="checkbox"/> 1. The drag force and flow characteristics
	<input checked="" type="checkbox"/> 2. The object's momentum
	<input checked="" type="checkbox"/> 3. The rate of heat transfer
	<input checked="" type="checkbox"/> 4. The fluid's viscosity

Question ID :	441009753453
Option 1 ID :	4410092967771
Option 2 ID :	4410092967769
Option 3 ID :	4410092967772
Option 4 ID :	4410092967770
Status :	Answered
Chosen Option :	1

Q.8	Which of the following taxiway design features plays the most significant role in minimising delays in aircraft movement on the ground?
1	
Ans	<input checked="" type="checkbox"/> 1. Wider taxiway shoulders
	<input checked="" type="checkbox"/> 2. Provision of multiple rapid-exit taxiways
	<input checked="" type="checkbox"/> 3. Increased pavement thickness
	<input checked="" type="checkbox"/> 4. Decorative lighting systems along taxiways

Question ID :	4410091049913
Option 1 ID :	4410094148731
Option 2 ID :	4410094148730
Option 3 ID :	4410094148729
Option 4 ID :	4410094148732
Status :	Answered
Chosen Option :	2

Q.8	Which of the following scenarios best exemplifies the use of compass surveying?
2	
Ans	<input checked="" type="checkbox"/> 1. Establishing primary control network for high-accuracy GPS work
	<input checked="" type="checkbox"/> 2. Monitoring subsidence by change in elevation
	<input checked="" type="checkbox"/> 3. Accurately subdividing urban parcels
	<input checked="" type="checkbox"/> 4. Rapidly surveying a long pipeline route through hills

Question ID :	4410091072841
Option 1 ID :	4410094228837
Option 2 ID :	4410094228834
Option 3 ID :	4410094228836
Option 4 ID :	4410094228835
Status :	Marked For Review
Chosen Option :	4

Q.8	Which of the following is NOT used for fastening rails to concrete sleepers?
3	
Ans	<input checked="" type="checkbox"/> 1. Pandrol clips
	<input checked="" type="checkbox"/> 2. Elastic fasteners
	<input checked="" type="checkbox"/> 3. Grooved rubber pads
	<input checked="" type="checkbox"/> 4. Fish plates

Question ID :	4410091050023
Option 1 ID :	4410094149165
Option 2 ID :	4410094149166
Option 3 ID :	4410094149168
Option 4 ID :	4410094149167
Status :	Answered
Chosen Option :	4

Q.8 4	"Swinging the telescope" in a theodolite implies revolving the telescope around which axis?
Ans	<input checked="" type="checkbox"/> 1. Vertical axis
	<input type="checkbox"/> 2. Optical axis
	<input type="checkbox"/> 3. Plate level axis
	<input type="checkbox"/> 4. Horizontal axis

Question ID :	4410091072613
Option 1 ID :	4410094227922
Option 2 ID :	4410094227924
Option 3 ID :	4410094227925
Option 4 ID :	4410094227923
Status :	Answered
Chosen Option :	1

Q.8 5	Which of the following is the most preferred option for waste management according to the CPHEEO Manual (2016) to prevent the generation of waste at various stages?
Ans	<input type="checkbox"/> 1. Material substitution
	<input type="checkbox"/> 2. Disposal
	<input type="checkbox"/> 3. Recovery
	<input checked="" type="checkbox"/> 4. At source reduction and reuse

Question ID :	441009982764
Option 1 ID :	4410093883515
Option 2 ID :	4410093883514
Option 3 ID :	4410093883513
Option 4 ID :	4410093883512
Status :	Answered
Chosen Option :	4

Q.8 6	Faults caused by tensional forces, in which the hanging wall drops relative to the footwall, are classified as:
Ans	<input type="checkbox"/> 1. oblique faults
	<input type="checkbox"/> 2. reverse faults
	<input checked="" type="checkbox"/> 3. normal faults
	<input type="checkbox"/> 4. strike-slip faults

Question ID :	441009883591
Option 1 ID :	4410093488333
Option 2 ID :	4410093488330
Option 3 ID :	4410093488331
Option 4 ID :	4410093488332
Status :	Marked For Review
Chosen Option :	4

Q.8	If a liquid wets a solid surface easily, it means:
7	
Ans	<input checked="" type="checkbox"/> 1. there is no surface tension
	<input checked="" type="checkbox"/> 2. cohesive forces are stronger
	<input checked="" type="checkbox"/> 3. surface tension is very high
	<input checked="" type="checkbox"/> 4. adhesive forces are stronger than cohesive forces

Question ID :	441009753231
Option 1 ID :	4410092966876
Option 2 ID :	4410092966873
Option 3 ID :	4410092966875
Option 4 ID :	4410092966874
Status :	Answered
Chosen Option :	4

Q.8	In a recording rain gauge, the data recorded is:
8	
Ans	<input checked="" type="checkbox"/> 1. rainfall intensity with time
	<input checked="" type="checkbox"/> 2. wind direction
	<input checked="" type="checkbox"/> 3. only total rainfall
	<input checked="" type="checkbox"/> 4. humidity and temperature

Question ID :	441009917036
Option 1 ID :	4410093622424
Option 2 ID :	4410093622425
Option 3 ID :	4410093622423
Option 4 ID :	4410093622426
Status :	Answered
Chosen Option :	1

Q.8	The design of rigid pavement slab is most sensitive to:
9	
Ans	<input checked="" type="checkbox"/> 1. paint marking thickness
	<input checked="" type="checkbox"/> 2. load and temperature-induced stresses
	<input checked="" type="checkbox"/> 3. sub-base drainage
	<input checked="" type="checkbox"/> 4. subgrade compaction

Question ID :	441009976202
Option 1 ID :	4410093857689
Option 2 ID :	4410093857688
Option 3 ID :	4410093857687
Option 4 ID :	4410093857686
Status :	Answered
Chosen Option :	2

Q.90	Which of the following is used to reduce the harmful effects of cold weather on concrete?
Ans	<input checked="" type="checkbox"/> 1. Retarding admixtures
	<input checked="" type="checkbox"/> 2. Fly ash
	<input checked="" type="checkbox"/> 3. Accelerating admixtures
	<input checked="" type="checkbox"/> 4. Air-entraining agents

Question ID :	441009943817
Option 1 ID :	4410093728862
Option 2 ID :	4410093728864
Option 3 ID :	4410093728865
Option 4 ID :	4410093728863
Status :	Answered
Chosen Option :	3

Q.91	In which situation is a parallel runway pattern used?
Ans	<input checked="" type="checkbox"/> 1. For general aviation fields only
	<input checked="" type="checkbox"/> 2. In mountain airports
	<input checked="" type="checkbox"/> 3. To handle high-density air traffic
	<input checked="" type="checkbox"/> 4. For airports with no apron

Question ID :	4410091049905
Option 1 ID :	4410094148699
Option 2 ID :	4410094148698
Option 3 ID :	4410094148697
Option 4 ID :	4410094148700
Status :	Answered
Chosen Option :	3

Q.92	The direction of the direct shear force on each bolt, due to an eccentrically applied load, is _____.
Ans	<input checked="" type="checkbox"/> 1. perpendicular to the direction of the applied load
	<input checked="" type="checkbox"/> 2. parallel to the direction of the applied load
	<input checked="" type="checkbox"/> 3. radial from the centroid of the bolt group
	<input checked="" type="checkbox"/> 4. tangential to the bolt circle

Question ID :	441009922761
Option 1 ID :	4410093645185
Option 2 ID :	4410093645187
Option 3 ID :	4410093645188
Option 4 ID :	4410093645186
Status :	Answered
Chosen Option :	2

Q.9 3	In a DPR, which section includes the description of cross drainage structures and foundation designs?
Ans	✓ 1. Drainage and Structures Design Drawings
	✗ 2. Road Geometric Plan
	✗ 3. Index Map
	✗ 4. Traffic Analysis Report

Question ID :	441009975313
Option 1 ID :	4410093854276
Option 2 ID :	4410093854274
Option 3 ID :	4410093854275
Option 4 ID :	4410093854273
Status :	Answered
Chosen Option :	1

Q.9 4	The hydrological cycle primarily refers to the:
Ans	✗ 1. chemical transformation of minerals
	✓ 2. circulation of water through the earth and atmosphere
	✗ 3. flow of magma inside the earth
	✗ 4. movement of tectonic plates

Question ID :	441009917018
Option 1 ID :	4410093622353
Option 2 ID :	4410093622352
Option 3 ID :	4410093622354
Option 4 ID :	4410093622351
Status :	Answered
Chosen Option :	2

Q.9 5	Which of the following reinforcement detailing provisions enhances ductility in RCC members?
Ans	✗ 1. Hook angles less than 90°
	✗ 2. Increase in clear cover
	✗ 3. Use of smooth bars
	✓ 4. Closely spaced confining stirrups

Question ID :	441009950365
Option 1 ID :	4410093754898
Option 2 ID :	4410093754900
Option 3 ID :	4410093754897
Option 4 ID :	4410093754899
Status :	Answered
Chosen Option :	4

Q.9	Which of the following statements is true regarding doubly reinforced beams?
6	
Ans	<input checked="" type="checkbox"/> 1. They are used only when deflection needs to be reduced.
	<input checked="" type="checkbox"/> 2. They are always preferred over flanged beams.
	<input checked="" type="checkbox"/> 3. They are designed when the depth of the beam is restricted.
	<input checked="" type="checkbox"/> 4. They are always more economical than singly reinforced beams.

Question ID :	441009927076
Option 1 ID :	4410093662374
Option 2 ID :	4410093662377
Option 3 ID :	4410093662376
Option 4 ID :	4410093662375
Status :	Answered
Chosen Option :	3

Q.9	Which element is commonly added to structural steel to improve its weldability?
7	
Ans	<input checked="" type="checkbox"/> 1. Sulphur
	<input checked="" type="checkbox"/> 2. Chromium
	<input checked="" type="checkbox"/> 3. Manganese
	<input checked="" type="checkbox"/> 4. Phosphorus

Question ID :	441009927569
Option 1 ID :	4410093664314
Option 2 ID :	4410093664317
Option 3 ID :	4410093664316
Option 4 ID :	4410093664315
Status :	Marked For Review
Chosen Option :	3

Q.9	Which type of survey is crucial for assessing the suitability of the site terrain for airport construction?
8	
Ans	<input checked="" type="checkbox"/> 1. Graphic survey
	<input checked="" type="checkbox"/> 2. Topographic survey
	<input checked="" type="checkbox"/> 3. Topoterrain survey
	<input checked="" type="checkbox"/> 4. Topological survey

Question ID :	4410091049759
Option 1 ID :	4410094148117
Option 2 ID :	4410094148118
Option 3 ID :	4410094148120
Option 4 ID :	4410094148119
Status :	Answered
Chosen Option :	2

Q.99	What is the main function met by a service reservoir in water distribution system?
Ans	<div><div><div><div><div><div></div></div></div><div>1. Maximise the pressure fluctuations in distribution systems</div></div></div><div><div><div></div></div><div>2. Store stormwater runoff to reduce peak flows</div></div></div> <div><div><div></div></div><div>3. Balancing fluctuating domestic water demand of the distribution system</div></div>

4. Fire-fighting demand during emergencies

Question ID :	441009982679
Option 1 ID :	4410093883174
Option 2 ID :	4410093883175
Option 3 ID :	4410093883172
Option 4 ID :	4410093883173
Status :	Answered
Chosen Option :	3

Q.100	A cable is suspended between two supports at different levels under UDL. The lowest point of the cable lies:
Ans	<div><div><div><div><div><div></div></div></div><div>1. At the mid-point of the horizontal span</div></div></div><div><div><div></div></div><div>2. Closer to the lower support</div></div></div> <div><div><div></div></div><div>3. Closer to the higher support</div></div>

4. Exactly mid-length of the cable

Question ID :	4410091025244
Option 1 ID :	4410094052630
Option 2 ID :	4410094052628
Option 3 ID :	4410094052629
Option 4 ID :	4410094052627
Status :	Answered
Chosen Option :	2

Q.101	The Le-Chatelier method is used to detect the presence of which compound that causes unsoundness in cement?
Ans	<div><div><div><div><div><div></div></div></div><div>1. Calcium chloride</div></div></div><div><div><div></div></div><div>2. Alumina</div></div></div> <div><div><div></div></div><div>3. Silica</div></div>

4. Free lime

Question ID :	441009941299
Option 1 ID :	4410093718851
Option 2 ID :	4410093718853
Option 3 ID :	4410093718852
Option 4 ID :	4410093718854
Status :	Answered
Chosen Option :	4

Q.102	Strain energy stored in a prismatic beam under bending is directly proportional to ____ (where M is bending moment at section x, EI is flexural rigidity of beam and σ is direct stress at considered section).
Ans	<div><div><div>✖</div><div>1.</div><div>$\int M \, dx$</div></div><div><div>✔</div><div>2.</div><div>$\int M^2 \, dx$</div></div><div><div>✖</div><div>3.</div><div>$\int EI \, dx$</div></div><div><div>✖</div><div>4.</div><div>$\int \sigma \, dx$</div></div></div>

Question ID :	441009963461
Option 1 ID :	4410093807179
Option 2 ID :	4410093807178
Option 3 ID :	4410093807181
Option 4 ID :	4410093807180
Status :	Answered
Chosen Option :	2

Q.103	Which metamorphic rock commonly forms from the low-grade metamorphism of shale?
Ans	<div><div><div>✖</div><div>1.</div><div>Amphibolite</div></div><div><div>✖</div><div>2.</div><div>Quartzite</div></div><div><div>✖</div><div>3.</div><div>Marble</div></div><div><div>✔</div><div>4.</div><div>Slate</div></div></div>

Question ID :	441009883583
Option 1 ID :	4410093488300
Option 2 ID :	4410093488301
Option 3 ID :	4410093488298
Option 4 ID :	4410093488299
Status :	Answered
Chosen Option :	1

Q.104	If a substance has a specific gravity greater than 1, then it means:
Ans	<div><div><div>✔</div><div>1.</div><div>it is denser than water</div></div><div><div>✖</div><div>2.</div><div>it is a gas</div></div><div><div>✖</div><div>3.</div><div>it will float on water</div></div><div><div>✖</div><div>4.</div><div>it is less dense than water</div></div></div>

Question ID :	441009753009
Option 1 ID :	4410092965995
Option 2 ID :	4410092965996
Option 3 ID :	4410092965994
Option 4 ID :	4410092965993
Status :	Answered
Chosen Option :	1

Q.1 05	According to IS 4111 (Part 1) - 1986, what is the maximum distance between manholes on sewers that are to be cleaned manually and cannot be entered for cleaning or inspection?
Ans	<div><div><div>✖</div><div>1. 50 metres</div></div><div><div>✔</div><div>2. 30 metres</div></div><div><div>✖</div><div>3. 150 metres</div></div><div><div>✖</div><div>4. 100 metres</div></div></div>

Question ID :	441009989014
Option 1 ID :	4410093908362
Option 2 ID :	4410093908361
Option 3 ID :	4410093908364
Option 4 ID :	4410093908363
Status :	Answered
Chosen Option :	1

Q.1 06	In a water distribution system, which hydraulic phenomenon does a surge tank primarily help to mitigate?
Ans	<div><div><div>✖</div><div>1. Cavitation</div></div><div><div>✖</div><div>2. Pressure loss</div></div><div><div>✖</div><div>3. Pipe burst</div></div><div><div>✔</div><div>4. Water hammer</div></div></div>

Question ID :	441009978706
Option 1 ID :	4410093867473
Option 2 ID :	4410093867476
Option 3 ID :	4410093867475
Option 4 ID :	4410093867474
Status :	Answered
Chosen Option :	4

Q.1 07	What is formed when chlorine reacts with natural organic matter in the disinfection process?
Ans	<div><div><div>✖</div><div>1. Chlorine gas</div></div><div><div>✖</div><div>2. Hypochlorite</div></div><div><div>✔</div><div>3. Trihalomethanes</div></div><div><div>✖</div><div>4. Chloride ions</div></div></div>

Question ID :	441009982624
Option 1 ID :	4410093882962
Option 2 ID :	4410093882961
Option 3 ID :	4410093882963
Option 4 ID :	4410093882964
Status :	Answered
Chosen Option :	3

Q.1 08	The velocity triangle at the outlet of a centrifugal pump helps in determining:
Ans	<div><div><div><div></div></div><div>1. static head only</div></div><div><div><div></div></div><div>2. efficiency of the impeller only</div></div><div><div><div></div></div><div>3. work done per unit weight of fluid</div></div><div><div><div></div></div><div>4. velocity of approach</div></div></div>

Question ID :	441009773318
Option 1 ID :	4410093047273
Option 2 ID :	4410093047276
Option 3 ID :	4410093047275
Option 4 ID :	4410093047274
Status :	Answered
Chosen Option :	3

Q.1 09	The dry density of soil is 1.8 g/cc, and the density of water is 1 g/cc. The void ratio of soil is 0.5. Find the specific gravity of soil solids.
Ans	<div><div><div><div></div></div><div>1. 2.64 g</div></div><div><div><div></div></div><div>2. 2.7</div></div><div><div><div></div></div><div>3. 2.64</div></div><div><div><div></div></div><div>4. 2.7 g</div></div></div>

Question ID :	441009994390
Option 1 ID :	4410093929633
Option 2 ID :	4410093929630
Option 3 ID :	4410093929631
Option 4 ID :	4410093929632
Status :	Answered
Chosen Option :	2

Q.1 10	As per IS 456:2000 for the Limit State of collapse, what are the partial safety factors for Dead Load (DL) and Imposed Load (IL) when they act together?
Ans	<div><div><div><div></div></div><div>1. DL = 1.2, IL = 1.2</div></div><div><div><div></div></div><div>2. DL = 0.9, IL = 1.5</div></div><div><div><div></div></div><div>3. DL = 1.0, IL = 1.0</div></div><div><div><div></div></div><div>4. DL = 1.5, IL = 1.5</div></div></div>

Question ID :	441009926863
Option 1 ID :	4410093661519
Option 2 ID :	4410093661521
Option 3 ID :	4410093661518
Option 4 ID :	4410093661520
Status :	Answered
Chosen Option :	4

Q.1	What is the unit used to express the duty of water in irrigation engineering?
11	
Ans	✓ 1. hectares/cumec
	✗ 2. litres/hour
	✗ 3. litres/second/hectare
	✗ 4. m³/sec

Question ID :	441009884283
Option 1 ID :	4410093491082
Option 2 ID :	4410093491080
Option 3 ID :	4410093491081
Option 4 ID :	4410093491079
Status :	Answered
Chosen Option :	1

Q.1	What issue do pumps address in the water treatment plant design?
12	
Ans	✗ 1. Removal of suspended solids from water
	✗ 2. Excess odour
	✗ 3. Sludge accumulation
	✓ 4. Insufficient hydraulic head to move water

Question ID :	441009983085
Option 1 ID :	4410093884812
Option 2 ID :	4410093884813
Option 3 ID :	4410093884815
Option 4 ID :	4410093884814
Status :	Answered
Chosen Option :	4

Q.1	In the stress-strain curve of concrete as per IS 456:2000, the maximum compressive strain in concrete in axial compression stress (f_{ck}) is approximately ____.
13	
Ans	✗ 1. 0.001
	✓ 2. 0.002
	✗ 3. 0.0035
	✗ 4. 0.005

Question ID :	441009926874
Option 1 ID :	4410093661570
Option 2 ID :	4410093661571
Option 3 ID :	4410093661572
Option 4 ID :	4410093661573
Status :	Answered
Chosen Option :	2

Q.1 Which of the following types of force is primarily transferred in framed and unstiffened seated connections?
14

- Ans
- ☒ 1. Axial force
 - ☒ 2. Shear force
 - ☒ 3. Bending moment
 - ☒ 4. Torsional force

Question ID : 441009922836
Option 1 ID : 4410093645489
Option 2 ID : 4410093645492
Option 3 ID : 4410093645490
Option 4 ID : 4410093645491
Status : Answered
Chosen Option : 3

Q.1 Which of the following lining material allows the highest permissible velocity?
15

- Ans
- ☒ 1. Earth
 - ☒ 2. Concrete
 - ☒ 3. Brick
 - ☒ 4. Stone pitching

Question ID : 441009889649
Option 1 ID : 4410093512546
Option 2 ID : 4410093512548
Option 3 ID : 4410093512547
Option 4 ID : 4410093512549
Status : Answered
Chosen Option : 2

Q.1 Which of the following is essential for the successful application of ready-mix concrete (RMC)?
16

- Ans
- ☒ 1. Excess water addition
 - ☒ 2. Efficient logistics and planning
 - ☒ 3. Use of only OPC
 - ☒ 4. Manual mixing at site

Question ID : 441009943773
Option 1 ID : 4410093728693
Option 2 ID : 4410093728691
Option 3 ID : 4410093728692
Option 4 ID : 4410093728690
Status : Answered
Chosen Option : 2

Q.1	A compound bar of steel and brass is heated uniformly while being fixed at both ends.
17	The resulting thermal stresses in steel and brass will be:
Ans	<div><div><div><div><div><div></div></div></div><div>1. Zero in both materials</div></div></div><div><div><div><div></div></div></div><div>2. Opposite in nature</div></div><div><div><div><div></div></div></div><div>3. Equal compressive stresses</div></div><div><div><div><div></div></div></div><div>4. Equal tensile stresses</div></div></div>

Question ID :	441009950249
Option 1 ID :	4410093754433
Option 2 ID :	4410093754436
Option 3 ID :	4410093754435
Option 4 ID :	4410093754434
Status :	Answered
Chosen Option :	2

Q.1	According to the World Health Organization's guidelines on indoor air quality, which of
18	the following major health concerns is associated with indoor radon exposure?
Ans	<div><div><div><div><div><div></div></div></div><div>1. Skin Rash</div></div></div><div><div><div><div></div></div></div><div>2. Asthma</div></div><div><div><div><div></div></div></div><div>3. Heart Disease</div></div><div><div><div><div></div></div></div><div>4. Lung Cancer</div></div></div>

Question ID :	441009982782
Option 1 ID :	4410093883586
Option 2 ID :	4410093883584
Option 3 ID :	4410093883587
Option 4 ID :	4410093883585
Status :	Answered
Chosen Option :	1

Q.1	During a tensile test, the true stress in a specimen is calculated using:
19	
Ans	<div><div><div><div><div><div></div></div></div><div>1. The instantaneous cross-sectional area</div></div></div><div><div><div><div></div></div></div><div>2. The gauge length at yield</div></div><div><div><div><div></div></div></div><div>3. The original cross-sectional area</div></div><div><div><div><div></div></div></div><div>4. The ultimate cross-sectional area</div></div></div>

Question ID :	441009950233
Option 1 ID :	4410093754371
Option 2 ID :	4410093754370
Option 3 ID :	4410093754369
Option 4 ID :	4410093754372
Status :	Answered
Chosen Option :	1

Q.1	What does CPM focus on in a network analysis?
20	
Ans	<input checked="" type="checkbox"/> 1. Resource levelling
	<input checked="" type="checkbox"/> 2. Time-known activities
	<input checked="" type="checkbox"/> 3. Time-unknown activities
	<input checked="" type="checkbox"/> 4. Project crashing

Question ID :	441009927607
Option 1 ID :	4410093664463
Option 2 ID :	4410093664464
Option 3 ID :	4410093664462
Option 4 ID :	4410093664465
Status :	Answered
Chosen Option :	4

Section : General Aptitude

Q.1	Select the most appropriate option to fill in the blank. There has been no significant progress in resolving the long-standing dispute, _____
Ans	<input checked="" type="checkbox"/> 1. has there?
	<input checked="" type="checkbox"/> 2. does there?
	<input checked="" type="checkbox"/> 3. is there?
	<input checked="" type="checkbox"/> 4. had there?

Question ID :	441009803347
Option 1 ID :	4410093167508
Option 2 ID :	4410093167509
Option 3 ID :	4410093167507
Option 4 ID :	4410093167510
Status :	Answered
Chosen Option :	2

Q.2	Select the most appropriate preposition to fill in the blank. The company is considering expansion _____ new industrial horizons.
Ans	<input checked="" type="checkbox"/> 1. to
	<input checked="" type="checkbox"/> 2. on
	<input checked="" type="checkbox"/> 3. into
	<input checked="" type="checkbox"/> 4. at

Question ID :	441009480223
Option 1 ID :	4410091876244
Option 2 ID :	4410091876241
Option 3 ID :	4410091876242
Option 4 ID :	4410091876243
Status :	Answered
Chosen Option :	1

Q.3 Select the most appropriate ANTONYM of the underlined word in the given sentence.

Despite the chaos around her, Meera remained nonchalant, casually sipping her coffee as if nothing out of the ordinary was happening.

- Ans
- ✓ 1. Concerned
 - ✗ 2. Petite
 - ✗ 3. Obnoxious
 - ✗ 4. Oscillating

Question ID :	441009406914
Option 1 ID :	4410091593047
Option 2 ID :	4410091593049
Option 3 ID :	4410091593046
Option 4 ID :	4410091593048
Status :	Answered
Chosen Option :	2

Q.4 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

They were devastated to find that / the thieves made well with the cash / that they had saved / to pay the mortgage.

- Ans
- ✗ 1. to pay the mortgage
 - ✗ 2. They were devastated to find that
 - ✓ 3. the thieves made well with the cash
 - ✗ 4. that they had saved

Question ID :	441009612878
Option 1 ID :	4410092406636
Option 2 ID :	4410092406633
Option 3 ID :	4410092406634
Option 4 ID :	4410092406635
Status :	Answered
Chosen Option :	3

Q.5 Select the most appropriate option to substitute the underlined words in the given sentence.

The restaurant's menu featured a fusion of traditional western including European and American cuisine with modern culinary techniques, creating a delightful dining experience.

- Ans
- ✗ 1. global
 - ✗ 2. southern
 - ✓ 3. occidental
 - ✗ 4. oceanic

Question ID :	441009431960
Option 1 ID :	4410091687360
Option 2 ID :	4410091687358
Option 3 ID :	4410091687361
Option 4 ID :	4410091687359
Status :	Answered
Chosen Option :	3

Q.6 Select the most appropriate idiom that can substitute the underlined segment in the given sentence.

In many families, the father often takes the largest part of responsibility for financial matters.

- Ans
- ☒ 1. bears the lion's share
 - ☐ 2. gets a fair share
 - ☐ 3. shares the burden
 - ☐ 4. shares the spotlight

Question ID :	441009407262
Option 1 ID :	4410091594438
Option 2 ID :	4410091594439
Option 3 ID :	4410091594441
Option 4 ID :	4410091594440
Status :	Answered
Chosen Option :	3

Q.7 Which Indian filmmaker was honoured with the Satyajit Ray Lifetime Achievement Award at the 55th International Film Festival of India, in November 2024?

- Ans
- ☐ 1. Anurag Kashyap
 - ☐ 2. Mani Ratnam
 - ☐ 3. Mira Nair
 - ☒ 4. Phillip Noyce

Question ID :	441009631028
Option 1 ID :	4410092478261
Option 2 ID :	4410092478260
Option 3 ID :	4410092478262
Option 4 ID :	4410092478259
Status :	Answered
Chosen Option :	2

Q.8 In which case did the Supreme Court hold that there is only one domicile in India?

- Ans
- ☐ 1. Vishakha and others v. State of Rajasthan
 - ☒ 2. Pradeep Jain v. Union of India
 - ☐ 3. Kesavananda Bharati v. State of Kerala
 - ☐ 4. Maneka Gandhi v. Union of India

Question ID :	441009634663
Option 1 ID :	4410092492802
Option 2 ID :	4410092492801
Option 3 ID :	4410092492799
Option 4 ID :	4410092492800
Status :	Answered
Chosen Option :	2

Q.9	Which category of infrastructure in India includes health and education?
Ans	<div><div><div>✖</div><div>1. Technological infrastructure</div></div></div>
	<div><div><div>✖</div><div>2. Financial infrastructure</div></div></div>
	<div><div><div>✔</div><div>3. Social infrastructure</div></div></div>
	<div><div><div>✖</div><div>4. Economic infrastructure</div></div></div>

Question ID :	441009510924
Option 1 ID :	4410091998856
Option 2 ID :	4410091998857
Option 3 ID :	4410091998855
Option 4 ID :	4410091998854
Status :	Answered
Chosen Option :	3

Q.10	In which of the following years did Bal Gangadhar Tilak launch the journal Mahratta?
Ans	<div><div><div>✖</div><div>1. 1889</div></div></div>
	<div><div><div>✔</div><div>2. 1881</div></div></div>
	<div><div><div>✖</div><div>3. 1864</div></div></div>
	<div><div><div>✖</div><div>4. 1859</div></div></div>

Question ID :	441009631256
Option 1 ID :	4410092479170
Option 2 ID :	4410092479169
Option 3 ID :	4410092479168
Option 4 ID :	4410092479167
Status :	Marked For Review
Chosen Option :	2

Q.11	Which of the following statements about the vegetation of India are correct? A. Thorny forests are found in the north-western part of the country. B. Tropical evergreen forests are found in Andaman and Nicobar. C. Silver fir and Junipers trees are found in Himalayan Montane Forests of India. D. India is one of the 12 mega bio-diversity countries of the world.
Ans	<div><div><div>✔</div><div>1. A, B, C and D</div></div></div>
	<div><div><div>✖</div><div>2. A and C only</div></div></div>
	<div><div><div>✖</div><div>3. A, B and C only</div></div></div>
	<div><div><div>✖</div><div>4. A and B only</div></div></div>

Question ID :	441009636230
Option 1 ID :	4410092499063
Option 2 ID :	4410092499064
Option 3 ID :	4410092499066
Option 4 ID :	4410092499065
Status :	Answered
Chosen Option :	2

Q.1	Union Cabinet Committee approved 'Digital Agriculture Mission' with a financial outlay
2	of _____ on 2 September 2024.
Ans	<input checked="" type="checkbox"/> 1. ₹1,017 crore
	<input checked="" type="checkbox"/> 2. ₹2,817 crore
	<input checked="" type="checkbox"/> 3. ₹500 crore
	<input checked="" type="checkbox"/> 4. ₹4,000 crore

Question ID :	441009629639
Option 1 ID :	4410092472704
Option 2 ID :	4410092472703
Option 3 ID :	4410092472705
Option 4 ID :	4410092472706
Status :	Marked For Review
Chosen Option :	2

Q.1	Which Indian institute organised SYNCHN 2024 to strengthen collaborations between
3	academia and industry?
Ans	<input checked="" type="checkbox"/> 1. Translational Health Science and Technology Institute (THSTI)
	<input checked="" type="checkbox"/> 2. Indian Institute of Science (IISc) Bengaluru
	<input checked="" type="checkbox"/> 3. Indian Institute of Technology (IIT) Bombay
	<input checked="" type="checkbox"/> 4. Indian Institute of Technology (IIT) Madras

Question ID :	441009630650
Option 1 ID :	4410092476749
Option 2 ID :	4410092476748
Option 3 ID :	4410092476747
Option 4 ID :	4410092476750
Status :	Marked For Review
Chosen Option :	4

Q.1	CE 101 is related to AH 212 in a certain way. In the same way, KM 127 is related to IP
4	238. To which of the following is WY 151 related, following the same logic? ¹⁰⁸⁴³
Ans	<input checked="" type="checkbox"/> 1. VC 282
	<input checked="" type="checkbox"/> 2. TC 272
	<input checked="" type="checkbox"/> 3. UB 262
	<input checked="" type="checkbox"/> 4. VB 282

Question ID :	441009744200
Option 1 ID :	4410092930559
Option 2 ID :	4410092930557
Option 3 ID :	4410092930558
Option 4 ID :	4410092930556
Status :	Answered
Chosen Option :	3

Q.1

In a certain code language,
5 'A + B' means 'A is the son of B',
'A – B' means 'A is the brother of B',
'A x B' means 'A is the wife of B' and
'A ÷ B' means 'A is the father of B'.
How is H related to Y if 'H ÷ U – N x T + Y'?

Ans

✖ 1. Son's wife's brother

✖ 2. Wife's father

✔ 3. Son's wife's father

✖ 4. Wife's brother

Question ID :	441009754229
Option 1 ID :	4410092970906
Option 2 ID :	4410092970907
Option 3 ID :	4410092970905
Option 4 ID :	4410092970908
Status :	Answered
Chosen Option :	3

Q.1

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

RTE UWH XZK ACN ?

Ans

✖ 1. DOP

✖ 2. DFO

✖ 3. DER

✔ 4. DFQ

Question ID :	441009753747
Option 1 ID :	4410092968979
Option 2 ID :	4410092968978
Option 3 ID :	4410092968980
Option 4 ID :	4410092968977
Status :	Answered
Chosen Option :	2

Q.1

In a certain code language, 'BACK' is coded as '5293' and 'CAKE' is coded as '2435'.
7 What is the code for 'E' in the given code language?

Ans

✖ 1. 2

✖ 2. 3

✔ 3. 4

✖ 4. 9

Question ID :	441009754266
Option 1 ID :	4410092971056
Option 2 ID :	4410092971055
Option 3 ID :	4410092971053
Option 4 ID :	4410092971054
Status :	Answered
Chosen Option :	3

Q.1 8 Select the triad which follows the same pattern as that followed by the two triads given below. Both triads follow the same pattern.
BJ-EL-GI
DL-GN-IK11013

- Ans ☒ 1. EN-IP-KL
- ☒ 2. FN-IP-KM
- ☒ 3. FN-IP-KL
- ☒ 4. EN-IO-KL

Question ID :	441009744370
Option 1 ID :	4410092931238
Option 2 ID :	4410092931236
Option 3 ID :	4410092931237
Option 4 ID :	4410092931239
Status :	Answered
Chosen Option :	2

Q.1 9 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. UY-DM
- ☒ 2. OS-XD
- ☒ 3. XB-GP
- ☒ 4. TX-CL

Question ID :	441009754296
Option 1 ID :	4410092971174
Option 2 ID :	4410092971173
Option 3 ID :	4410092971175
Option 4 ID :	4410092971176
Status :	Answered
Chosen Option :	1

Q.2 0 What will come in place of the question mark (?) in the following equation if '+' and '÷' are interchanged and '-' and 'x' are interchanged?
 $12 + 4 \times 8 \div 6 - 5 = ?$

- Ans ☒ 1. 35
- ☒ 2. 15
- ☒ 3. 5
- ☒ 4. 25

Question ID :	441009514808
Option 1 ID :	4410092014565
Option 2 ID :	4410092014563
Option 3 ID :	4410092014562
Option 4 ID :	4410092014564
Status :	Answered
Chosen Option :	4

Q.2 1 A, B, C, X, Y and Z live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it is numbered 2, and so on till the topmost floor is numbered 6. A lives on floor numbered 5. X lives on a floor above A. Only C lives below Z. Y lives on an even-numbered floor. How many people live below B?

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

Question ID :	441009753725
Option 1 ID :	4410092968884
Option 2 ID :	4410092968881
Option 3 ID :	4410092968883
Option 4 ID :	4410092968882
Status :	Answered
Chosen Option :	4

Q.2 2 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.
(Left) 9 1 8 6 5 4 2 3 1 4 2 2 4 4 4 2 7 2 8 8 4 (Right)
How many such odd digits are there, each of which is immediately preceded by a perfect square and also immediately followed by an even digit?

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

Question ID :	441009754189
Option 1 ID :	4410092970748
Option 2 ID :	4410092970747
Option 3 ID :	4410092970746
Option 4 ID :	4410092970745
Status :	Answered
Chosen Option :	4

Q.2 3 Refer to the given letter series and answer the question that follows. Counting to be done from left to right only.
(Left) W G D V E S Y F A Q Y T S V T H S B U (Right)
How many such vowels are there, each of which is immediately preceded by a consonant and also immediately followed by a consonant?

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

Question ID :	441009754173
Option 1 ID :	4410092970684
Option 2 ID :	4410092970682
Option 3 ID :	4410092970681
Option 4 ID :	4410092970683
Status :	Answered
Chosen Option :	2

Q.2 When the selling price of a guitar is ₹36000, the shopkeeper incurs a loss of 10%. What should be the selling price (in ₹) of that guitar so as to gain 10%?775

- Ans
- ✗ 1. 45000
 - ✗ 2. 43000
 - ✓ 3. 44000
 - ✗ 4. 42000

Question ID :	441009517059
Option 1 ID :	4410092023657
Option 2 ID :	4410092023658
Option 3 ID :	4410092023655
Option 4 ID :	4410092023656
Status :	Answered
Chosen Option :	3

Q.2 Simplify $9 - \{(-14) \times (-4 - 16 - 19)\} \div [3 \times \{5 + (-3) \times (-4)\}]$

- Ans
- ✗ 1. $-\frac{79}{51}$
 - ✗ 2. $-\frac{84}{51}$
 - ✓ 3. $-\frac{87}{51}$
 - ✗ 4. $-\frac{88}{51}$

Question ID :	441009575720
Option 1 ID :	4410092258003
Option 2 ID :	4410092258001
Option 3 ID :	4410092258000
Option 4 ID :	4410092258002
Status :	Answered
Chosen Option :	3

Q.2 The number of prime numbers lying between 323 and 332 is:9181

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

Question ID :	441009525465
Option 1 ID :	4410092057279
Option 2 ID :	4410092057281
Option 3 ID :	4410092057280
Option 4 ID :	4410092057282
Status :	Answered
Chosen Option :	2

Q.2 Two banks, A and B, offered loans at 3.5% and 6.5% per annum, respectively. Nirmal
7 borrowed an amount of ₹500000 from each bank. Find the positive difference between
the amounts of simple interest (in ₹) paid to the two banks by Nirmal after 3 years.3890

- Ans ☒ 1. 45000
- ☐ 2. 46000
- ☐ 3. 46500
- ☐ 4. 44500

Question ID :	441009520174
Option 1 ID :	4410092036115
Option 2 ID :	4410092036116
Option 3 ID :	4410092036118
Option 4 ID :	4410092036117
Status :	Answered
Chosen Option :	1

Q.2 If 95% of a first number is equal to 67% of second number, then what is the ratio of first
8 number and the second number?6784

- Ans ☐ 1. 69:101
- ☒ 2. 67:95
- ☐ 3. 65:100
- ☐ 4. 66:100

Question ID :	441009545111
Option 1 ID :	4410092135841
Option 2 ID :	4410092135840
Option 3 ID :	4410092135843
Option 4 ID :	4410092135842
Status :	Answered
Chosen Option :	2

Q.2 On a circular path of 2140 m, Rashika and Shifa start walking from the same point but
9 in the opposite directions at the speed of 1.3 m/s and X m/sec, respectively. They will
meet for the first time after 214 seconds. Find the value of X.

- Ans ☐ 1. 9.6
- ☐ 2. 6.5
- ☐ 3. 9.7
- ☒ 4. 8.7

Question ID :	441009538631
Option 1 ID :	4410092109923
Option 2 ID :	4410092109921
Option 3 ID :	4410092109922
Option 4 ID :	4410092109920
Status :	Answered
Chosen Option :	3

Q.30 A cuboid with dimensions $3k$, $5k$, and $8k$ is cut into cubes of side 2 units with any wastage. What is the ratio of the length of the diagonal of the initial cuboid to the lengths of the diagonals of all the cubes formed?

- Ans
- ✗ 1. $7\sqrt{2} : 15k^2$
 - ✗ 2. $\sqrt{3}k^3 : 15$
 - ✓ 3. $7\sqrt{6} : 90k^2$
 - ✗ 4. $\sqrt{6}k : 30\sqrt{3}$

Question ID :	441009601227
Option 1 ID :	4410092360025
Option 2 ID :	4410092360028
Option 3 ID :	4410092360026
Option 4 ID :	4410092360027
Status :	Answered
Chosen Option :	4

