

PGCIL 01 Jul 2026 7 Posts

Participant ID	
Participant Name	
Test Center Name	01/07/2026
Test Date	1:00 PM - 3:00 PM
Test Time	Diploma Trainee Civil
Subject	

Section : Technical Knowledge Test

Q.1 Consider the Assertion and reason statement about friction pile foundation and identify the correct answer.
Assertion(A): Friction piles are used to transfer loads to a depth of friction load carrying capacity of materials by means of skin friction along the length of pile.
Reason(R): Friction piles are used if hard strata is not available to a considerable depth.

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

Question ID : 44100981147

Option 1 ID : 441009322216

Option 2 ID : 441009322215

Option 3 ID : 441009322214

Option 4 ID : 441009322217

Chosen Option : 1

Q.2 The design strength of a steel tension member against net section rupture is calculated using which material property?

- Ans**
- ☒ 1. Yield strength, f_y
- ☒ 2. Shear modulus, G
- ☒ 3. Modulus of elasticity, E
- ☒ 4. Ultimate tensile strength, f_u

Question ID : 4410091974627

Option 1 ID : 4410097777336

Option 2 ID : 4410097777339

Option 3 ID : 4410097777338

Option 4 ID : 4410097777337

Chosen Option : 1

Q.3 For an isotropic material under uniform stress and small strain, the volumetric strain in terms of the linear strain ϵ is:

- Ans
- ☐ 1. Equal to ϵ
- ☐ 2. Equal to ϵ^2
- ☐ 3. Equal to $\frac{\epsilon}{3}$
- ☒ 4. Equal to 3ϵ

Question ID : 4410091208756

Option 1 ID : 4410094768524

Option 2 ID : 4410094768526

Option 3 ID : 4410094768527

Option 4 ID : 4410094768525

Chosen Option : 2

Q.4 What is the formula for specific gravity of fine aggregates (aggregate smaller than 10 mm) using the pycnometer method as per IS: 2386 -Part 3?

Where, A = weight in g of saturated surface-dry sample,
B = weight in g of pycnometer or gas jar containing sample and filled with distilled water,
C = weight in g of pycnometer or gas jar filled with distilled water only, and
D = weight in g of oven-dried sample.

- Ans
- ☐ 1. $\frac{(B - C)}{A}$
- ☒ 2. $\frac{D}{\{A - (B - C)\}}$
- ☐ 3. $\frac{100(A - D)}{D}$
- ☐ 4. $D \times \{D - (B - C)\}$

Question ID : 4410091224860

Option 1 ID : 4410094832916

Option 2 ID : 4410094832914

Option 3 ID : 4410094832915

Option 4 ID : 4410094832913

Chosen Option : 3

Q.5 A body of weight 100 N rests on a rough horizontal surface. If the coefficient of friction between the body and the surface is 0.3, the minimum horizontal force required to just start moving the body is:

Ans ☒ 1. 10 N

☒ 2. 30 N

☒ 3. 50 N

☒ 4. 20 N

Question ID : 4410091273316

Option 1 ID : 4410095025272

Option 2 ID : 4410095025274

Option 3 ID : 4410095025275

Option 4 ID : 4410095025273

Chosen Option : 2

Q.6 What is the typical specific gravity range for mineral soil particles?

Ans ☒ 1. 4.5 to 5.0

☒ 2. 1.0 to 1.5

☒ 3. 2.6 to 2.8

☒ 4. 3.5 to 4.0

Question ID : 4410091161960

Option 1 ID : 4410094582413

Option 2 ID : 4410094582410

Option 3 ID : 4410094582411

Option 4 ID : 4410094582412

Chosen Option : 2

Q.7 Which of the following types of formwork is preferred where lightweight handling and resistance to corrosion are important?

Ans ☒ 1. Brick formwork

☒ 2. Mild steel formwork

☒ 3. Timber formwork

☒ 4. Aluminum formwork

Question ID : 4410091979915

Option 1 ID : 4410097798572

Option 2 ID : 4410097798571

Option 3 ID : 4410097798570

Option 4 ID : 4410097798569

Chosen Option : 4

Q.8 Which of the following properties of hollow concrete blocks makes them preferable for multi-story buildings?

- Ans**
- ☒ 1. High tensile strength and increased porosity
 - ☒ 2. Low self-weight and thermal insulation
 - ☒ 3. High water absorption and low durability
 - ☒ 4. High density and low insulation

Question ID : 44100967483

Option 1 ID : 441009268701

Option 2 ID : 441009268699

Option 3 ID : 441009268700

Option 4 ID : 441009268698

Chosen Option : 2

Q.9 At what distance does the centroid of a semicircular lamina of radius 'R' lie?

- Ans**
- ☒ 1. $\frac{4R}{3\pi}$ from the flat edge along the axis of symmetry
 - ☒ 2. At the center of the diameter
 - ☒ 3. $\frac{R}{2}$ from the flat edge along the axis of symmetry
 - ☒ 4. Outside the semicircle

Question ID : 4410091527547

Option 1 ID : 4410096033355

Option 2 ID : 4410096033357

Option 3 ID : 4410096033356

Option 4 ID : 4410096033358

Chosen Option : 3

Q.10 Which of the following statements regarding a window sill is INCORRECT?

- Ans**
- ☒ 1. It throws off rain water from the face of the wall below the window.
 - ☒ 2. It gives support to the vertical members of the window.
 - ☒ 3. It is a horizontal member of stone, concrete or other materials.
 - ☒ 4. It protects windows/interiors of a building from harsh sun light.

Question ID : 44100938842

Option 1 ID : 441009154912

Option 2 ID : 441009154914

Option 3 ID : 441009154911

Option 4 ID : 441009154913

Chosen Option : 2

Q.11 Which of the following is an example of a uniformly varying distributed load on a beam?

- Ans**
- ☒ 1. A machine placed centrally on a beam
 - ☒ 2. Two equal point loads placed symmetrically
 - ☒ 3. Wind load on a sloped roof beam
 - ☒ 4. A water tank resting on the beam at one point

Question ID : 4410091173152

Option 1 ID : 4410094626767

Option 2 ID : 4410094626768

Option 3 ID : 4410094626766

Option 4 ID : 4410094626765

Chosen Option : 2

Q.12 Which method is quite simple in computation of a hexagonal plan building with no partition walls?

- Ans**
- ☒ 1. Long wall short wall method
 - ☒ 2. Center line method
 - ☒ 3. In to in method
 - ☒ 4. Partly center line and partly cross wall method

Question ID : 4410091205884

Option 1 ID : 4410094757071

Option 2 ID : 4410094757070

Option 3 ID : 4410094757073

Option 4 ID : 4410094757072

Chosen Option : 1

Q.13 Which of the following components should be present in good brick earth to ensure strength and durability?

- Ans**
- ☒ 1. High proportion of alumina only to increase plasticity
 - ☒ 2. Balanced proportion of alumina, silica, lime, iron oxide, and magnesia
 - ☒ 3. High organic matter to make the clay more workable
 - ☒ 4. Excess lime to improve color and hardness of bricks

Question ID : 4410091320821

Option 1 ID : 4410095214842

Option 2 ID : 4410095214845

Option 3 ID : 4410095214844

Option 4 ID : 4410095214843

Chosen Option : 1

Q.14 Which of the following correctly pairs a type of rock with its common engineering application?

- Ans** ☒ 1. Sedimentary rocks (like sandstone) – often used in construction for building facades and as dimension stones.
- ☐ 2. Metamorphic rocks (like slate and gneiss) – mainly used as insulation materials due to their porous nature.
- ☐ 3. Igneous rocks (like basalt) – primarily used as filler material in concrete due to their lightweight.
- ☐ 4. Igneous rocks (like granite) – primarily used for road surfacing due to their rough texture.

Question ID : 4410091506509

Option 1 ID : 4410095950393

Option 2 ID : 4410095950394

Option 3 ID : 4410095950395

Option 4 ID : 4410095950392

Chosen Option : 3

Q.15 When a retaining wall moves towards the backfill soil, which state of earth pressure is mobilised in the soil at failure?

- Ans** ☐ 1. Minimum pressure state.
- ☐ 2. Intermediate pressure state.
- ☒ 3. Maximum pressure state.
- ☐ 4. Zero pressure state.

Question ID : 4410091476426

Option 1 ID : 4410095833015

Option 2 ID : 4410095833014

Option 3 ID : 4410095833017

Option 4 ID : 4410095833016

Chosen Option : 4

Q.16 In a CBR test on a soil sample, the load required to cause a 2.5 mm penetration is 750 kg. The load required for a 5.0mm penetration is 900 kg. The standard loads for 2.5 mm and 5.0 mm penetrations are 1370 kg and 2055 kg, respectively. What is the CBR value of the soil?

- Ans** ☐ 1. $\approx 65.7\%$
- ☒ 2. $\approx 54.7\%$
- ☐ 3. $\approx 43.8\%$
- ☐ 4. $\approx 75.0\%$

Question ID : 4410091210711

Option 1 ID : 4410094776339

Option 2 ID : 4410094776338

Option 3 ID : 4410094776340

Option 4 ID : 4410094776341

Chosen Option : 1

Q.17 Which glass type is ideal for shielding X-ray and gamma-ray radiation in medical settings?

- Ans**
- ☐ 1. Borosilicate glass
- ☐ 2. Soda lime glass
- ☐ 3. Aluminosilicate glass
- ☒ 4. Lead glass

Question ID : 441009146914

Option 1 ID : 441009583471

Option 2 ID : 441009583470

Option 3 ID : 441009583473

Option 4 ID : 441009583472

Chosen Option : 2

Q.18 A cantilever beam of length L is fixed at one end and free at the other. A clockwise couple of magnitude M is applied at the free end. What is the correct shear force diagram (SFD) along the length of the beam?

- Ans**
- ☐ 1. Shear force increases linearly from zero at the free end to M at the fixed end.
- ☐ 2. Shear force is maximum at the free end and decreases to zero at the fixed end.
- ☐ 3. Shear force is constant and equal to M/L along the beam.
- ☒ 4. Shear force is zero along the entire length of the beam.

Question ID : 4410091372528

Option 1 ID : 4410095421545

Option 2 ID : 4410095421546

Option 3 ID : 4410095421544

Option 4 ID : 4410095421543

Chosen Option : 4

Q.19 For a cantilever beam of length L carrying a point load W at its free end, the bending moment at the fixed end is:

- Ans**
- ☐ 1. zero
- ☐ 2. $\frac{W}{L}$
- ☐ 3. $\frac{WL^2}{2}$
- ☒ 4. WL

Question ID : 4410091253693

Option 1 ID : 4410094947903

Option 2 ID : 4410094947902

Option 3 ID : 4410094947901

Option 4 ID : 4410094947900

Chosen Option : 3

Q.20 What is the typical slump value for concrete used in heavily reinforced sections like columns and retaining walls?

- Ans**
- ☒ 1. 0-25 mm
- ☒ 2. 75-150 mm
- ☒ 3. 25-50 mm
- ☒ 4. 50-100 mm

Question ID : 441009128160

Option 1 ID : 441009509262

Option 2 ID : 441009509261

Option 3 ID : 441009509259

Option 4 ID : 441009509260

Chosen Option : 3

Q.21 Which of the following terms correctly defines the maximum vertical pressure that can be applied to the soil surface without causing shear failure?

- Ans**
- ☒ 1. Settlement bearing capacity
- ☒ 2. Ultimate bearing capacity
- ☒ 3. Allowable bearing capacity
- ☒ 4. Net safe bearing capacity

Question ID : 4410091476403

Option 1 ID : 4410095832925

Option 2 ID : 4410095832923

Option 3 ID : 4410095832922

Option 4 ID : 4410095832924

Chosen Option : --

Q.22 Select the option that is true regarding the following two statements labelled Assertion (A) and Reason (R).

Assertion (A): Mobile cranes always require the use of stabilizers or outriggers to lift their design loads.

Reason (R): Larger mobile cranes consist of separate units that operate on a fixed base when assembled for crane duties.

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

Question ID : 4410091198702

Option 1 ID : 4410094728656

Option 2 ID : 4410094728657

Option 3 ID : 4410094728659

Option 4 ID : 4410094728658

Chosen Option : 4

Q.23 The value of nominal shear stress (τ_v) in a rectangular RC beam depends on _____.

- Ans
- ☒ 1. the percentage of longitudinal steel reinforcement only
 - ☒ 2. the characteristic strength of steel
 - ☒ 3. the factored shear force, beam width, and effective depth
 - ☒ 4. the grade of concrete only

Question ID : 4410091224155

Option 1 ID : 4410094830076

Option 2 ID : 4410094830078

Option 3 ID : 4410094830077

Option 4 ID : 4410094830075

Chosen Option : 1

Q.24 Select the option that is true regarding the following two statements labelled Assertion (A) and Reason (R).

Assertion(A): The actual dimension and the nominal dimension of the modular brick are 190 mm x 90 mm x 90mm and 200 mm x 100 mm x 100 mm, respectively.

Reason(R): The nominal dimensions include the brick size plus the mortar joint providing a measure of brickwork total dimensions in a structure.

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

Question ID : 4410091205307

Option 1 ID : 4410094754741

Option 2 ID : 4410094754742

Option 3 ID : 4410094754740

Option 4 ID : 4410094754739

Chosen Option : 1

Q.25 With respect to unit quantity method, the service unit for construction of road is taken as:

- Ans
- ☒ 1. unit length of road
 - ☒ 2. number of bridges
 - ☒ 3. area covered in unit length
 - ☒ 4. number of intersections

Question ID : 44100975877

Option 1 ID : 441009301782

Option 2 ID : 441009301783

Option 3 ID : 441009301785

Option 4 ID : 441009301784

Chosen Option : 1

Q.26 Three concurrent coplanar forces act at a point: 10 N along +x, 6 N along -x, and 8 N along +y. The resultant magnitude is:

- Ans**
- ☒ 1. 8.94 N
 - ☐ 2. 4.00 N
 - ☐ 3. 10.0 N
 - ☐ 4. 14.0 N

Question ID : 4410091273288

Option 1 ID : 4410095025164

Option 2 ID : 4410095025165

Option 3 ID : 4410095025166

Option 4 ID : 4410095025167

Chosen Option : 3

Q.27 Consider the below statements with respect to hydraulic and Pneumatic elevators and identify correct answer.
Statement A: Pneumatic elevators do not require counterweight system.
Statement B: Hydraulic elevators, require a dedicated machine room and occupy more floor space when compared to Pneumatic elevators.

- Ans**
- ☐ 1. Both statements are incorrect
 - ☐ 2. Statement A is correct and B is incorrect
 - ☒ 3. Both statements are correct
 - ☐ 4. Statement B is correct and A is incorrect

Question ID : 44100970734

Option 1 ID : 441009281550

Option 2 ID : 441009281547

Option 3 ID : 441009281549

Option 4 ID : 441009281548

Chosen Option : 3

Q.28 While storing cement bags, the cement bags should be placed such that the marking on the bag:

- Ans**
- ☐ 1. Does not matter
 - ☐ 2. Faces downward
 - ☒ 3. Faces outward and alternates layer by layer
 - ☐ 4. Faces upward

Question ID : 4410091391355

Option 1 ID : 4410095495072

Option 2 ID : 4410095495070

Option 3 ID : 4410095495071

Option 4 ID : 4410095495069

Chosen Option : 3

Q.29 Which of the following components forms the vertical sides of a window opening?

- Ans**
- ☒ 1. Mullion
 - ☒ 2. Sill
 - ☒ 3. Lintel
 - ☒ 4. Jamb

Question ID : 4410091978689

Option 1 ID : 4410097793658

Option 2 ID : 4410097793655

Option 3 ID : 4410097793656

Option 4 ID : 4410097793657

Chosen Option : --

Q.30 The portion of a building located between ground level and floor level is known as:

- Ans**
- ☒ 1. Plinth
 - ☒ 2. Dado
 - ☒ 3. Parapet
 - ☒ 4. Sill

Question ID : 4410091978652

Option 1 ID : 4410097793508

Option 2 ID : 4410097793507

Option 3 ID : 4410097793509

Option 4 ID : 4410097793510

Chosen Option : 1

Q.31 Which parameter influences the output of vibratory compactors?

- Ans**
- ☒ 1. Tire size
 - ☒ 2. Fuel type
 - ☒ 3. Frequency
 - ☒ 4. Boom length

Question ID : 4410091217873

Option 1 ID : 4410094804906

Option 2 ID : 4410094804905

Option 3 ID : 4410094804904

Option 4 ID : 4410094804907

Chosen Option : 1

Q.32 Which type of door is commonly used where space for shutter movement is limited?

- Ans**
- ☒ 1. Paneled door
 - ☒ 2. Battened door
 - ☒ 3. Sliding door
 - ☒ 4. Hinged door

Question ID : 4410091978668

Option 1 ID : 4410097793574

Option 2 ID : 4410097793572

Option 3 ID : 4410097793571

Option 4 ID : 4410097793573

Chosen Option : 4

Q.33 In a steel column, what is the significance of the 'effective length'?

- Ans**
- ☒ 1. It is the thickness of the column section irrespective of end conditions.
 - ☒ 2. It is the length of an equivalent pin-ended column with the same buckling load as the actual column with given end conditions.
 - ☒ 3. It is the actual unsupported length of the column.
 - ☒ 4. It is the length of the column divided by the least radius of gyration.

Question ID : 4410091224165

Option 1 ID : 4410094830117

Option 2 ID : 4410094830116

Option 3 ID : 4410094830115

Option 4 ID : 4410094830118

Chosen Option : --

Q.34 Modulus of rigidity relates to which two mechanical quantities?

- Ans**
- ☒ 1. Stress and volumetric strain
 - ☒ 2. Lateral strain and axial strain
 - ☒ 3. Tensile stress and longitudinal strain
 - ☒ 4. Shear stress and shear strain

Question ID : 441009945500

Option 1 ID : 4410093735530

Option 2 ID : 4410093735532

Option 3 ID : 4410093735533

Option 4 ID : 4410093735531

Chosen Option : 4

Q.35 Total quantity method is a method used for which of the following?

- Ans**
- ☒ 1. Apporximate quantity estimate
- ☒ 2. Plinth area estimate
- ☒ 3. Cube rate estimate
- ☒ 4. Detailed estimate

Question ID : 4410091237478

Option 1 ID : 4410094883447

Option 2 ID : 4410094883446

Option 3 ID : 4410094883445

Option 4 ID : 4410094883444

Chosen Option : 3

Q.36 Calculate the cost of cement concreting a road of two kilometer length. The width of the road is 3.70 m and thickness of cement concrete layer is 10 cm. Given the rate of cement concreting is ₹3,750 per cubic meter.

- Ans**
- ☒ 1. ₹2,77,500
- ☒ 2. ₹27,750
- ☒ 3. ₹2,775,000
- ☒ 4. ₹27,750,000

Question ID : 44100949842

Option 1 ID : 441009198625

Option 2 ID : 441009198627

Option 3 ID : 441009198624

Option 4 ID : 441009198626

Chosen Option : 4

Q.37 Which of the following terms does NOT refer to a finishing process for stone surfaces after removal from the quarry?

- Ans**
- ☒ 1. Boasting
- ☒ 2. Blasting
- ☒ 3. Dressing
- ☒ 4. Cutting

Question ID : 4410091010603

Option 1 ID : 4410093994069

Option 2 ID : 4410093994070

Option 3 ID : 4410093994068

Option 4 ID : 4410093994067

Chosen Option : --

Q.38 Match the following tests of determination of water content, with their method used.

Test Name	Method Used
A: Rapid moisture meter method	1: Use of methylated spirit
B: Radiation method	2: Use of calcium carbide
C: Alcohol method	3: Use of Cobalt-60
D: Torsional balance method	4: Use of infra-red lamp

Ans ☒ 1. A-3, B-2, C-4, D-1

☒ 2. A-1, B-4, C-3, D-2

☒ 3. A-2, B-3, C-1, D-4

☒ 4. A-4, B-1, C-2, D-3

Question ID : **441009998201**

Option 1 ID : **4410093944730**

Option 2 ID : **4410093944732**

Option 3 ID : **4410093944729**

Option 4 ID : **4410093944731**

Chosen Option : --

Q.39 Which failure mode is desirable in singly reinforced cement concrete beams as per Limit State Design?

Ans ☒ 1. Brittle failure of concrete

☒ 2. Sudden shear failure

☒ 3. Crushing of concrete and steel together

☒ 4. Ductile failure by yielding of steel

Question ID : **4410091168065**

Option 1 ID : **4410094606820**

Option 2 ID : **4410094606819**

Option 3 ID : **4410094606822**

Option 4 ID : **4410094606821**

Chosen Option : --

Q.40 Which of the following is a type of joint used in concrete construction to allow for expansion due to temperature changes?

- Ans**
- ☒ 1. Construction joint
 - ☒ 2. Isolation joint
 - ☒ 3. Contraction joint
 - ☒ 4. Expansion joint

Question ID : 4410091320948

Option 1 ID : 4410095215347

Option 2 ID : 4410095215348

Option 3 ID : 4410095215349

Option 4 ID : 4410095215346

Chosen Option : 4

Q.41 Identify one of the correct designations of building, classified based on type of construction, as stated in NATIONAL BUILDING CODE OF INDIA 2016.

- Ans**
- ☒ 1. Group N
 - ☒ 2. Educational building
 - ☒ 3. Type I
 - ☒ 4. Group E

Question ID : 44100970773

Option 1 ID : 441009281702

Option 2 ID : 441009281701

Option 3 ID : 441009281700

Option 4 ID : 441009281699

Chosen Option : 4

Q.42 While conducting a Schmidt hammer test on concrete, a higher rebound number generally indicates:

- Ans**
- ☒ 1. Higher compressive strength
 - ☒ 2. Weaker concrete mix
 - ☒ 3. No effect on compressive strength
 - ☒ 4. Lower compressive strength

Question ID : 44100948643

Option 1 ID : 441009193884

Option 2 ID : 441009193886

Option 3 ID : 441009193887

Option 4 ID : 441009193885

Chosen Option : 1

Q.43 Which of the following is NOT a type of deep foundation?

- Ans
- ☒ 1. Pier foundation
 - ☒ 2. Well foundation
 - ☒ 3. Pile foundation
 - ☒ 4. Strip foundation

Question ID : 441009102099

Option 1 ID : 441009406417

Option 2 ID : 441009406419

Option 3 ID : 441009406416

Option 4 ID : 441009406418

Chosen Option : 2

Q.44 The deflection angle δ (in degree) for a chord length L in a simple curve of radius R is given by:

- Ans
- ☒ 1. $\delta = \frac{180 \cdot L}{\pi R}$
 - ☒ 2. $\delta = \frac{L}{R}$
 - ☒ 3. $\delta = \frac{\pi R}{L}$
 - ☒ 4. $\delta = \frac{R}{L}$

Question ID : 4410091165678

Option 1 ID : 4410094597311

Option 2 ID : 4410094597310

Option 3 ID : 4410094597313

Option 4 ID : 4410094597312

Chosen Option : --

Q.45 In high-rise buildings, traction lifts are generally preferred mainly because they:

- Ans
- ☒ 1. Eliminate guide rails completely
 - ☒ 2. Operate without electricity
 - ☒ 3. Require no machine room
 - ☒ 4. Provide higher speed and efficiency

Question ID : 4410091978261

Option 1 ID : 4410097791945

Option 2 ID : 4410097791943

Option 3 ID : 4410097791946

Option 4 ID : 4410097791944

Chosen Option : 4

Q.46 Identify the waterproofing method frequently applied in construction practices.

- Ans**
- ☒ 1. Bituminous coating
 - ☐ 2. Reinforced concrete
 - ☐ 3. Thermal insulation
 - ☐ 4. Fire-retardant coating

Question ID : 4410091177092

Option 1 ID : 4410094642588

Option 2 ID : 4410094642589

Option 3 ID : 4410094642587

Option 4 ID : 4410094642590

Chosen Option : 1

Q.47 In the method of joints, a zero-force member occurs when:

- Ans**
- ☐ 1. The joint has only horizontal members.
 - ☐ 2. A joint is loaded symmetrically.
 - ☐ 3. The truss is made symmetrical about both horizontal and vertical axis.
 - ☒ 4. A joint has only two non-collinear members and there is no external load or support reaction in both the members.

Question ID : 441009138366

Option 1 ID : 441009549698

Option 2 ID : 441009549696

Option 3 ID : 441009549697

Option 4 ID : 441009549695

Chosen Option : --

Q.48 Which feature of a total station allows automatic calculation of coordinates?

- Ans**
- ☒ 1. Onboard data collector with coordinate geometry software
 - ☐ 2. Dual-axis compensator
 - ☐ 3. Battery life indicator
 - ☐ 4. Laser plummet for centering

Question ID : 4410091199502

Option 1 ID : 4410094731859

Option 2 ID : 4410094731857

Option 3 ID : 4410094731858

Option 4 ID : 4410094731856

Chosen Option : 1

Q.49 In which type of force system do the forces neither meet at a single point nor act parallel to each other?

- Ans**
- ☒ 1. Non-coplanar concurrent force system
- ☒ 2. Non-concurrent and non-parallel force system
- ☒ 3. Coplanar force system
- ☒ 4. Collinear force system

Question ID : 44100962091

Option 1 ID : 441009247392

Option 2 ID : 441009247390

Option 3 ID : 441009247391

Option 4 ID : 441009247393

Chosen Option : --

Q.50 According to the principle of transmissibility, a force can be moved along its:

- Ans**
- ☒ 1. plane of application
- ☒ 2. axis of rotation
- ☒ 3. line of action
- ☒ 4. point of application

Question ID : 44100962100

Option 1 ID : 441009247427

Option 2 ID : 441009247426

Option 3 ID : 441009247428

Option 4 ID : 441009247429

Chosen Option : 3

Q.51 Select the correct statements regarding approximate estimates.

A: The plinth area rate of a building is estimated from a similar building having similar specifications, height and construction, in the locality.
 B: The plinth area rate of a building is estimated after actually constructing the total plinth area of building.
 C: Cube rate estimate is more accurate than plinth area estimate.
 D: Plinth area estimate is a type of detailed estimate.

- Ans**
- ☒ 1. Only B and C
- ☒ 2. Only A and C
- ☒ 3. Only A and D
- ☒ 4. Only B and D

Question ID : 44100975865

Option 1 ID : 441009301736

Option 2 ID : 441009301734

Option 3 ID : 441009301735

Option 4 ID : 441009301737

Chosen Option : 4

Q.52 For estimating the volume of concrete in RCC works, the deduction in volume of concrete for the steel bars is equal to:

- Ans**
- ☐ 1. 0.75 times the volume of steel bars
- ☐ 2. 0.5 times the volume of steel bars
- ☐ 3. the volume of steel bars
- ☒ 4. zero

Question ID : 4410091238193

Option 1 ID : 4410094886301

Option 2 ID : 4410094886300

Option 3 ID : 4410094886299

Option 4 ID : 4410094886298

Chosen Option : 1

Q.53 In a continuous beam, the point where the bending moment changes sign is known as:

- Ans**
- ☐ 1. Maximum Deflection Point
- ☐ 2. Support Point
- ☒ 3. Point of Contraflexure
- ☐ 4. Point of Zero Shear

Question ID : 441009138300

Option 1 ID : 441009549428

Option 2 ID : 441009549430

Option 3 ID : 441009549429

Option 4 ID : 441009549427

Chosen Option : --

Q.54 Which method of approximate estimation uses the cost per unit multiplied by the number of units in the building to calculate the total project cost?

- Ans**
- ☐ 1. Revised estimate method
- ☒ 2. Service unit method
- ☐ 3. Cubical content method
- ☐ 4. Plinth area method

Question ID : 4410091513989

Option 1 ID : 4410095979917

Option 2 ID : 4410095979914

Option 3 ID : 4410095979916

Option 4 ID : 4410095979915

Chosen Option : 2

Q.55 For concrete used in wearing surfaces (like roads and runways), the maximum allowable aggregate impact value by weight is:

- Ans**
- ☒ 1. 55%
 - ☒ 2. 35%
 - ☒ 3. 45%
 - ☒ 4. 30%

Question ID : 4410091386813

Option 1 ID : 4410095477938

Option 2 ID : 4410095477936

Option 3 ID : 4410095477937

Option 4 ID : 4410095477935

Chosen Option : 4

Q.56 The introduction of fixity at a beam column junction refers to:

- Ans**
- ☒ 1. The beam support can resist both vertical and horizontal forces only
 - ☒ 2. The beam support cannot resist both vertical and horizontal forces, but prevent rotation of beam.
 - ☒ 3. The beam support can resist both vertical and horizontal forces but not prevent rotation of beam.
 - ☒ 4. The beam support can resist both vertical and horizontal forces, along with preventing rotation.

Question ID : 441009138283

Option 1 ID : 441009549359

Option 2 ID : 441009549361

Option 3 ID : 441009549362

Option 4 ID : 441009549360

Chosen Option : --

Q.57 What happens to bond stress in RC members, if the concrete is poorly compacted?

- Ans**
- ☒ 1. It becomes infinite
 - ☒ 2. It increases
 - ☒ 3. It remains unchanged
 - ☒ 4. It decreases

Question ID : 4410091376104

Option 1 ID : 4410095435959

Option 2 ID : 4410095435956

Option 3 ID : 4410095435958

Option 4 ID : 4410095435957

Chosen Option : --

Q.58 Which of the following is correct with respect to a direct shear test?

- Ans**
- ☒ 1. Drainage conditions are perfectly controlled, and a direct shear test is useful for undrained conditions.
 - ☒ 2. Soil sample can fail about any plane in a direct shear test.
 - ☒ 3. The proving ring in a direct shear test is used to measure the normal stress.
 - ☒ 4. Shear box of a direct shear test has two equal halves, out of which one part moves, while the other remains fixed.

Question ID : 441009142406

Option 1 ID : 441009565761

Option 2 ID : 441009565758

Option 3 ID : 441009565760

Option 4 ID : 441009565759

Chosen Option : 1

Q.59 Which of the following is NOT a performance requirement of a joint filler for accommodating movement in concrete due to the tensile and compressive stresses caused by expansion in summer and contraction in winter?

- Ans**
- ☒ 1. Ability to recover as early as possible 75% of its original thickness when pressure is released
 - ☒ 2. Compressibility without extrusion, that is, it must be cellular
 - ☒ 3. Sufficient flexibility during handling and placing to permit the formation of straight joints
 - ☒ 4. Durability and resistance to decay due to termite and weathering

Question ID : 4410091243885

Option 1 ID : 4410094908831

Option 2 ID : 4410094908830

Option 3 ID : 4410094908833

Option 4 ID : 4410094908832

Chosen Option : --

Q.60 Which angular method is commonly used for setting out simple circular curves in surveying?

- Ans**
- ☒ 1. Chord produced method
 - ☒ 2. Ordinates from tangent
 - ☒ 3. Rankine's deflection angle method
 - ☒ 4. Offset from chord

Question ID : 4410091215459

Option 1 ID : 4410094795217

Option 2 ID : 4410094795219

Option 3 ID : 4410094795218

Option 4 ID : 4410094795216

Chosen Option : 2

Q.61 What is the upper limit of expansion allowed in the Le-Chatelier soundness test for OPC?

- Ans**
- ☐ 1. 8 mm
- ☐ 2. 5 mm
- ☒ 3. 10 mm
- ☐ 4. 12 mm

Question ID : **4410091217395**

Option 1 ID : **4410094802978**

Option 2 ID : **4410094802977**

Option 3 ID : **4410094802979**

Option 4 ID : **4410094802980**

Chosen Option : **3**

Q.62 Which of the following statements regarding the estimation of flexible pavements are correct?

A: Metalling means preparation of hard road surface using crushed rocks, etc.

B: Metalling means construction of metal fencing along the sides of road.

C: The quantity of layering of stone boulders of 15 cm thickness, for a road of 1 km length and 4 m width, will be 600 m³.

D: The quantity of layering of stone boulders of 20 cm thickness, for a road of 1 km length and 8 m width, will be 600 m³.

- Ans**
- ☐ 1. Only B and D
- ☒ 2. Only A and C
- ☐ 3. Only A and D
- ☐ 4. Only B and C

Question ID : **44100979334**

Option 1 ID : **441009315190**

Option 2 ID : **441009315187**

Option 3 ID : **441009315188**

Option 4 ID : **441009315189**

Chosen Option : **--**

Q.63 In the laboratory determination of water absorption of coarse aggregates as per IS 2386 (Part 3), what method is applied to the aggregate to determine its actual dry weight?

- Ans**
- ☒ 1. The aggregate is weighted without cleaning or washing
 - ☒ 2. The aggregate is weighted on surface after natural dry
 - ☒ 3. The aggregate is dried in oven and weighted
 - ☒ 4. The aggregate is weighted in water only

Question ID : 4410091206861

Option 1 ID : 4410094760981

Option 2 ID : 4410094760979

Option 3 ID : 4410094760980

Option 4 ID : 4410094760978

Chosen Option : 1

Q.64 A cantilever beam of 4 m carries a UDL of 5 kN/m. The fixed end moment is:

- Ans**
- ☒ 1. 80 kN·m
 - ☒ 2. 10 kN·m
 - ☒ 3. 40 kN·m
 - ☒ 4. 20 kN·m

Question ID : 4410091273306

Option 1 ID : 4410095025235

Option 2 ID : 4410095025234

Option 3 ID : 4410095025232

Option 4 ID : 4410095025233

Chosen Option : 3

Q.65 For a body to be in equilibrium:

- Ans**
- ☒ 1. Only Net moment equals 0
 - ☒ 2. Only Net force equals 0
 - ☒ 3. Both Net force and Net moment equals 0
 - ☒ 4. Both Net force and Net moment not equals 0

Question ID : 441009752071

Option 1 ID : 4410092962191

Option 2 ID : 4410092962190

Option 3 ID : 4410092962192

Option 4 ID : 4410092962193

Chosen Option : 1

Q.66 How is the compressive strength of concrete determined in India according to IS standards?

- Ans**
- ☒ 1. Testing 100mm cubes after 7 days
 - ☒ 2. Testing 200mm cubes after 21 days
 - ☒ 3. Testing 150mm cubes after 28 days
 - ☒ 4. Testing 150mm × 300mm cylinders after 14 days

Question ID : 4410091026679

Option 1 ID : 4410094058299

Option 2 ID : 4410094058302

Option 3 ID : 4410094058300

Option 4 ID : 4410094058301

Chosen Option : 3

Q.67 What happens to the shear force diagram at the point where a pure moment (couple) is applied?

- Ans**
- ☒ 1. Shear force decreases linearly
 - ☒ 2. Shear force becomes zero
 - ☒ 3. Shear force increases suddenly
 - ☒ 4. There is no change in shear force

Question ID : 4410091083886

Option 1 ID : 4410094272606

Option 2 ID : 4410094272604

Option 3 ID : 4410094272605

Option 4 ID : 4410094272603

Chosen Option : 2

Q.68 When chaining on sloping ground using the stepping (breaking chain) method, which condition ensures correct measurement?

- Ans**
- ☒ 1. Chain held parallel to the slope for every step
 - ☒ 2. Chain held horizontally at each step, with vertical projection by a plumb line
 - ☒ 3. Chain length increased to compensate slope distance
 - ☒ 4. Chain kept in tension without horizontal alignment

Question ID : 4410091396738

Option 1 ID : 4410095516612

Option 2 ID : 4410095516613

Option 3 ID : 4410095516615

Option 4 ID : 4410095516614

Chosen Option : 1

Q.69	Contour maps are essential for planning the alignment of linear projects such as highways, railways, and canals because they allow engineers to ____.
Ans	☒ 1. Determine the shortest horizontal distance between two far-apart terminals, regardless of elevation change. ☒ 2. Design a route that maintains a uniform or constant gradient (slope) to minimize cutting and filling. ☒ 3. Calculate the seismic activity and fault line locations of the region. ☒ 4. Identify areas with high traffic density for optimal placement.

Question ID : 4410091363139

Option 1 ID : 4410095384493

Option 2 ID : 4410095384492

Option 3 ID : 4410095384494

Option 4 ID : 4410095384491

Chosen Option : --

Q.70 The Rankine's formula for the crippling load of a strut accounts for the failure due to ____.

- Ans**
- ☒ 1. Both crushing and buckling
- ☒ 2. Crushing only
- ☒ 3. Shear only
- ☒ 4. Buckling only

Question ID : 4410091168186

Option 1 ID : 4410094607295

Option 2 ID : 4410094607293

Option 3 ID : 4410094607296

Option 4 ID : 4410094607294

Chosen Option : 1

Q.71 Under static load conditions, Inclined stirrups are more effective than vertical stirrups because ____.

- Ans**
- ☒ 1. They carry axial load
- ☒ 2. They improve bending resistance
- ☒ 3. The diagonal cracks cross multiple inclined stirrups
- ☒ 4. They reduce bond stress

Question ID : 4410091206666

Option 1 ID : 4410094760210

Option 2 ID : 4410094760212

Option 3 ID : 4410094760211

Option 4 ID : 4410094760213

Chosen Option : 1

Q.72 Select the option that is true regarding the following two statements labelled Assertion (A) and Reason (R).

Assertion (A): Vibratory plate compactors are suitable for compacting granular soils, bitumen, and small areas like potholes to around a thousand square metres, operating on low amplitude and high frequency (2500–6000 vpm).
Reason (R): The gasoline or diesel engine drives an eccentric weight to generate vibration in the base plate, which realigns soil particles and reduces voids, with heavier plates providing more compaction force and options like water sprinklers preventing bitumen sticking.

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

Question ID : 4410091197427

Option 1 ID : 4410094723639

Option 2 ID : 4410094723642

Option 3 ID : 4410094723640

Option 4 ID : 4410094723641

Chosen Option : --

Q.73 The resultant of two like parallel forces is equal to:

- Ans**
- ☐ 1. Product of the forces
 - ☐ 2. The force having greater magnitude
 - ☒ 3. Algebraic sum of both the forces
 - ☐ 4. Average of the forces

Question ID : 4410091206334

Option 1 ID : 4410094758881

Option 2 ID : 4410094758879

Option 3 ID : 4410094758878

Option 4 ID : 4410094758880

Chosen Option : 2

Q.74 A cantilever beam of length 3 m carries a point load of 10 kN (directed vertically downwards) at its free end. The reaction at the fixed end consists of:

- Ans**
- ☐ 1. Vertical reaction = 10 kN downward
 - ☐ 2. No moment at the fixed end
 - ☐ 3. Vertical reaction = 10 kN upward, clockwise moment = 10 kN·m
 - ☒ 4. Vertical reaction = 10 kN upward, counter-clockwise moment = 30 kN·m

Question ID : 4410091273300

Option 1 ID : 4410095025212

Option 2 ID : 4410095025215

Option 3 ID : 4410095025214

Option 4 ID : 4410095025213

Chosen Option : 4

Q.75 How does modern tile adhesive allow tile-on-tile installation?

- Ans**
- ☐ 1. By creating air gaps between the tiles for flexibility
 - ☐ 2. By increasing the thickness of the tile layer
 - ☐ 3. By chemically dissolving the surface of old tiles
 - ☒ 4. By forming a strong bond between the new and old tiles

Question ID : 44100973749

Option 1 ID : 441009293297

Option 2 ID : 441009293296

Option 3 ID : 441009293294

Option 4 ID : 441009293295

Chosen Option : 2

Q.76 Under biaxial stress conditions, which modulus is most directly needed to relate lateral strain to axial strain?

- Ans**
- ☐ 1. Shear modulus
 - ☒ 2. Poisson's ratio
 - ☐ 3. Bulk modulus
 - ☐ 4. Modulus of elasticity

Question ID : 441009988472

Option 1 ID : 4410093906166

Option 2 ID : 4410093906168

Option 3 ID : 4410093906167

Option 4 ID : 4410093906165

Chosen Option : 4

Q.77 What does a higher rebound number generally indicate?

- Ans**
- ☒ 1. More porosity
 - ☒ 2. Less density
 - ☒ 3. Lower strength
 - ☒ 4. Higher strength

Question ID : 4410091217686

Option 1 ID : 4410094804153

Option 2 ID : 4410094804154

Option 3 ID : 4410094804151

Option 4 ID : 4410094804152

Chosen Option : 4

Q.78 Which of the following assumptions is NOT made in the limit state analysis of singly reinforced beam?

- Ans**
- ☒ 1. Concrete resists tension efficiently
 - ☒ 2. Maximum strain in concrete at the outermost fiber is 0.0035
 - ☒ 3. Strain in steel is the same as the strain in the surrounding concrete
 - ☒ 4. Plane sections remain plane after bending

Question ID : 4410091360681

Option 1 ID : 4410095374792

Option 2 ID : 4410095374793

Option 3 ID : 4410095374794

Option 4 ID : 4410095374791

Chosen Option : --

Q.79 Expand ILWIS on the context of GIS.

- Ans**
- ☒ 1. Industrial Land and Water Information System
 - ☒ 2. Innovative Land and Water Information System
 - ☒ 3. Integrated Land and Weather Information System
 - ☒ 4. Integrated Land and Water Information System

Question ID : 441009129040

Option 1 ID : 441009512775

Option 2 ID : 441009512777

Option 3 ID : 441009512776

Option 4 ID : 441009512774

Chosen Option : 1

Q.80 What is the main preventive measure against sulfate attack?

- Ans**
- ☒ 1. Low C3A cement
 - ☐ 2. High water content
 - ☐ 3. Air entrainment
 - ☐ 4. Rapid mixing

Question ID : 4410091217658

Option 1 ID : 4410094804031

Option 2 ID : 4410094804032

Option 3 ID : 4410094804034

Option 4 ID : 4410094804033

Chosen Option : --

Q.81 As per National Building Code (NBC) which of the building classifications defines building that includes both retail and wholesale stores?

- Ans**
- ☐ 1. Business
 - ☐ 2. Institutional
 - ☐ 3. Assembly
 - ☒ 4. Mercantile

Question ID : 4410091507119

Option 1 ID : 4410095952935

Option 2 ID : 4410095952934

Option 3 ID : 4410095952936

Option 4 ID : 4410095952937

Chosen Option : 4

Q.82 A simply supported beam has a length of 8 m and carries a point load of 10 kN at mid-span and a UDL of 4 kN/m over its entire length. What is the total reaction force at both supports combined?

- Ans**
- ☒ 1. 42 kN
 - ☐ 2. 32 kN
 - ☐ 3. 22 kN
 - ☐ 4. 40 kN

Question ID : 44100962571

Option 1 ID : 441009249344

Option 2 ID : 441009249345

Option 3 ID : 441009249347

Option 4 ID : 441009249346

Chosen Option : 4

Q.83 Which of the following materials is likely to have the lowest Poisson's ratio?

- Ans
- ☒ 1. Copper
 - ☒ 2. Steel
 - ☒ 3. Cork
 - ☒ 4. Rubber

Question ID : 441009945510

Option 1 ID : 4410093735573

Option 2 ID : 4410093735572

Option 3 ID : 4410093735571

Option 4 ID : 4410093735570

Chosen Option : 4

Q.84 Read the given assertion (A) and reason (R) and select the correct option based on the analysis of these statements.

Assertion (A): Skilled labor wages are higher than unskilled labor wages.

Reason (R): Skilled laborers require special training and expertise to perform tasks efficiently.

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

Question ID : 44100958973

Option 1 ID : 441009234806

Option 2 ID : 441009234808

Option 3 ID : 441009234809

Option 4 ID : 441009234807

Chosen Option : 2

Q.85 A soil has liquid limit of 25%, plastic limit of 15% and natural water content in the field as 20%. Find the ratio of its liquidity index to consistency index.

- Ans
- ☒ 1. 2
 - ☒ 2. 0.5
 - ☒ 3. 0.2
 - ☒ 4. 1

Question ID : 441009941232

Option 1 ID : 4410093718587

Option 2 ID : 4410093718586

Option 3 ID : 4410093718588

Option 4 ID : 4410093718585

Chosen Option : 2

Q.86 Soda-lime glass is used in the manufacture of which of the following?

Ans ☒ 1. Window glass

☐ 2. Lenses

☐ 3. Safety glass

☐ 4. Electric bulbs

Question ID : 44100920100

Option 1 ID : 44100980141

Option 2 ID : 44100980143

Option 3 ID : 44100980144

Option 4 ID : 44100980142

Chosen Option : 2

Q.87 Identify the measurement feature of a Total Station that provides both horizontal distances and coordinates.

Ans ☐ 1. Compass function

☒ 2. EDM function

☐ 3. Leveling function

☐ 4. Clinometer function

Question ID : 4410091215510

Option 1 ID : 4410094795420

Option 2 ID : 4410094795421

Option 3 ID : 4410094795423

Option 4 ID : 4410094795422

Chosen Option : 2

Q.88 Find the rough estimate of a proposed hospital building having a cubical content of 24000 m³. Given the cubic rate of construction in the same locality is ₹6,000.

Ans ☒ 1. ₹1,44,000,000

☐ 2. ₹1,40,000,000

☐ 3. ₹1,04,000,000

☐ 4. ₹1,44,400,000

Question ID : 4410091079610

Option 1 ID : 4410094255715

Option 2 ID : 4410094255714

Option 3 ID : 4410094255716

Option 4 ID : 4410094255717

Chosen Option : 1

Q.89 Vertical sand drains system in a soil layer is used for:

Ans ☒ 1. rapid compaction

☒ 2. rapid consolidation

☒ 3. slowing consolidation

☒ 4. field compaction

Question ID : 44100911352

Option 1 ID : 44100945235

Option 2 ID : 44100945236

Option 3 ID : 44100945238

Option 4 ID : 44100945237

Chosen Option : 4

Q.90 Which equipment is used to inject grout material into cracks or voids under pressure?

Ans ☒ 1. Grout pump

☒ 2. Air compressor

☒ 3. Grout mixer

☒ 4. Cement gun

Question ID : 4410091485007

Option 1 ID : 4410095866508

Option 2 ID : 4410095866507

Option 3 ID : 4410095866505

Option 4 ID : 4410095866506

Chosen Option : 1

Q.91 Which phenomenon causes a compass needle to tilt vertically?

Ans ☒ 1. Solar radiation

☒ 2. Magnetic declination

☒ 3. Local attraction

☒ 4. Magnetic dip

Question ID : 4410091198957

Option 1 ID : 4410094729675

Option 2 ID : 4410094729672

Option 3 ID : 4410094729674

Option 4 ID : 4410094729673

Chosen Option : 2

Q.92 What is the term used to describe the maximum load per unit area that a soil can support before it fails in shear?

- Ans**
- ☐ 1. Net ultimate bearing capacity
- ☐ 2. Allowable bearing pressure
- ☒ 3. Ultimate bearing capacity
- ☐ 4. Safe bearing capacity

Question ID : 4410091386290

Option 1 ID : 4410095475865

Option 2 ID : 4410095475863

Option 3 ID : 4410095475864

Option 4 ID : 4410095475866

Chosen Option : 4

Q.93 Which of the following statements is correct regarding soil compaction and consolidation?

- Ans**
- ☐ 1. Compaction occurs only in clays; consolidation occurs only in sands
- ☐ 2. Both always increase soil permeability
- ☐ 3. Compaction is time-dependent; consolidation is immediate
- ☒ 4. Compaction decreases air voids; consolidation decreases water content

Question ID : 4410091405550

Option 1 ID : 4410095551335

Option 2 ID : 4410095551333

Option 3 ID : 4410095551332

Option 4 ID : 4410095551334

Chosen Option : 4

Q.94 If I_{XX} and I_{YY} are the moments of inertia of a plane lamina about two perpendicular axes X-X and Y-Y meeting at point O in its plane, then according to the Perpendicular Axis Theorem, the moment of inertia I_{ZZ} about the Z-Z axis perpendicular to the plane and passing through O is given by:

- Ans**
- ☐ 1. $I_{ZZ} = I_{XX} - I_{YY}$
- ☐ 2. $I_{ZZ} = I_{XX} \times I_{YY}$
- ☐ 3. $I_{ZZ} = \frac{I_{XX} + I_{YY}}{2}$
- ☒ 4. $I_{ZZ} = I_{XX} + I_{YY}$

Question ID : 4410091421828

Option 1 ID : 4410095616205

Option 2 ID : 4410095616206

Option 3 ID : 4410095616207

Option 4 ID : 4410095616204

Chosen Option : --

Q.95 A simply supported beam of span 6 m carries a 12 kN point load at 2 m from the left support. The reaction at the left support is _____.

Ans ☒ 1. 12 kN

☒ 2. 6 kN

☒ 3. 4 kN

☒ 4. 8 kN

Question ID : 441009989248

Option 1 ID : 4410093909292

Option 2 ID : 4410093909290

Option 3 ID : 4410093909289

Option 4 ID : 4410093909291

Chosen Option : 4

Q.96 A retaining wall is supporting a cohesionless soil backfill with a unit weight of 18 kN/m^3 and an angle of internal friction (ϕ) of 30° . Assuming a horizontal ground surface, what is the magnitude of the active earth pressure at a depth of 4 m?

Ans ☒ 1. 12 kPa

☒ 2. 36 kPa

☒ 3. 72 kPa

☒ 4. 24 kPa

Question ID : 4410091327747

Option 1 ID : 4410095242519

Option 2 ID : 4410095242517

Option 3 ID : 4410095242518

Option 4 ID : 4410095242520

Chosen Option : --

Q.97 If net force is zero but net moment is not zero, body will:

Ans ☒ 1. Move randomly

☒ 2. Move straight

☒ 3. Remain at rest

☒ 4. Rotate

Question ID : 4410091527587

Option 1 ID : 4410096033545

Option 2 ID : 4410096033544

Option 3 ID : 4410096033543

Option 4 ID : 4410096033546

Chosen Option : --

Q.98 Which of the following is NOT a type of survey based on the purpose of surveying?

- Ans**
- ☒ 1. Topographical survey
 - ☒ 2. Chain survey
 - ☒ 3. Astronomical survey
 - ☒ 4. Hydrographic survey

Question ID : 4410091344779

Option 1 ID : 4410095311808

Option 2 ID : 4410095311811

Option 3 ID : 4410095311810

Option 4 ID : 4410095311809

Chosen Option : 3

Q.99 Which of the following is the MOST critical characteristic of a building stone used in hydraulic structures like dams and bridges?

- Ans**
- ☒ 1. High resistance to weathering and water absorption
 - ☒ 2. Easy workability with hand tools
 - ☒ 3. High aesthetic appeal
 - ☒ 4. Low specific gravity

Question ID : 4410091086021

Option 1 ID : 4410094281637

Option 2 ID : 4410094281638

Option 3 ID : 4410094281635

Option 4 ID : 4410094281636

Chosen Option : 1

Q.100 In a fixed beam, the ends are restrained such that:

- Ans**
- ☒ 1. Both vertical and horizontal displacement are allowed
 - ☒ 2. Only vertical displacement is restricted
 - ☒ 3. Both rotation and horizontal, vertical displacement are restricted
 - ☒ 4. Rotation is free but horizontal displacement is restricted

Question ID : 4410091172554

Option 1 ID : 4410094624389

Option 2 ID : 4410094624386

Option 3 ID : 4410094624387

Option 4 ID : 4410094624388

Chosen Option : 4

Q.101 As per IS 2117:1991 requirements of handmade brick making, which of the following satisfy the mechanical composition of mixture of clay used in bricks by mass?

- Ans**
- ☒ 1. Clay 10 to 20%, Silt 30 to 45%, Sand 25 to 40% by mass
 - ☒ 2. Clay 20 to 30%, Silt 20 to 35%, Sand 35 to 50% by mass
 - ☒ 3. Clay 30 to 40%, Silt 15 to 25%, Sand 35 to 50% by mass
 - ☒ 4. Clay 25 to 35%, Silt 10 to 15%, Sand 45 to 60% by mass

Question ID : 4410091212189

Option 1 ID : 4410094782175

Option 2 ID : 4410094782176

Option 3 ID : 4410094782178

Option 4 ID : 4410094782177

Chosen Option : 1

Q.102 Identify the INCORRECT statement about the determination of catchment area using a contour map?

- Ans**
- ☒ 1. The line that separates the catchment basin from the rest of the area is called watershed line.
 - ☒ 2. The watershed line is usually perpendicular to the ridge line.
 - ☒ 3. The area within the watershed line is useful in studying the flood level.
 - ☒ 4. The catchment area can be determined from the contour plan.

Question ID : 4410091368760

Option 1 ID : 4410095406479

Option 2 ID : 4410095406480

Option 3 ID : 4410095406481

Option 4 ID : 4410095406478

Chosen Option : 2

Q.103 A series of offsets were taken from a chain line to an irregular boundaries of a line at an interval of 20 m in the following order: 0; 6.5; 7.5; 5.5; 4.5; 6; 0. Find the area enclosed between the chain line and irregular boundary using Simpson's Rule.

- Ans**
- ☒ 1. 640 m²
 - ☒ 2. 3200 m²
 - ☒ 3. 6400 m²
 - ☒ 4. 320 m²

Question ID : 44100949980

Option 1 ID : 441009199156

Option 2 ID : 441009199159

Option 3 ID : 441009199158

Option 4 ID : 441009199157

Chosen Option : --

Q.104 In which of the following situations does a body experience direct stress?

- Ans**
- ☒ 1. A cantilever beam under point load
 - ☒ 2. A circular shaft under torsion
 - ☒ 3. A plate under in-plane shear
 - ☒ 4. A column loaded axially in compression

Question ID : 441009945454

Option 1 ID : 4410093735346

Option 2 ID : 4410093735347

Option 3 ID : 4410093735349

Option 4 ID : 4410093735348

Chosen Option : --

Q.105 Splay headers or splay stretchers are bricks used for constructing:

- Ans**
- ☒ 1. coping on the parapet
 - ☒ 2. the plinth of the building
 - ☒ 3. odd shaped wall corners
 - ☒ 4. steps at ground level

Question ID : 44100945183

Option 1 ID : 441009179935

Option 2 ID : 441009179934

Option 3 ID : 441009179933

Option 4 ID : 441009179936

Chosen Option : 3

Q.106 Magnetic declination at a place is:

- Ans**
- ☒ 1. Affected only by ground slope
 - ☒ 2. Always eastward in India (fixed direction)
 - ☒ 3. Variable with both location and time
 - ☒ 4. Constant with time (does not change)

Question ID : 4410091324199

Option 1 ID : 4410095228275

Option 2 ID : 4410095228276

Option 3 ID : 4410095228274

Option 4 ID : 4410095228273

Chosen Option : 3

Q.107 Which end condition results in the highest critical buckling load for a column of the same length and material?

- Ans**
- ☒ 1. Pinned-Pinned
 - ☒ 2. Fixed-Fixed
 - ☒ 3. Fixed-Pinned
 - ☒ 4. Fixed-Free

Question ID : 44100912238

Option 1 ID : 44100948755

Option 2 ID : 44100948758

Option 3 ID : 44100948757

Option 4 ID : 44100948756

Chosen Option : 4

Q.108 What is the primary purpose of compressive strength testing in concrete?

- Ans**
- ☒ 1. To measure aggregate quality directly
 - ☒ 2. To determine the concrete's ability to resist axial loads
 - ☒ 3. To directly evaluate durability and failure modes
 - ☒ 4. To assess its curing properties only

Question ID : 441009265808

Option 1 ID : 4410091033104

Option 2 ID : 4410091033102

Option 3 ID : 4410091033101

Option 4 ID : 4410091033103

Chosen Option : 3

Q.109 A truss that has fewer members than required for a stability is called a/an _____ truss.

- Ans**
- ☒ 1. deficient
 - ☒ 2. perfect
 - ☒ 3. redundant
 - ☒ 4. over rigid

Question ID : 441009303008

Option 1 ID : 4410091178626

Option 2 ID : 4410091178624

Option 3 ID : 4410091178627

Option 4 ID : 4410091178625

Chosen Option : 4

Q.110 A simply supported beam of span ' L ' carries a point load ' P ' at mid-span and a uniformly distributed load (UDL) ' w ' over the entire span. The maximum bending moment in the beam occurs:

- Ans**
- ☒ 1. At one support
 - ☒ 2. At mid-span only
 - ☒ 3. Between mid-span and heavier loaded region
 - ☒ 4. At free end

Question ID : 4410091527565

Option 1 ID : 4410096033451

Option 2 ID : 4410096033453

Option 3 ID : 4410096033454

Option 4 ID : 4410096033452

Chosen Option : 2

Q.111 In built-up sections, which type of lacing system provides greater rigidity?

- Ans**
- ☒ 1. Perforated plates
 - ☒ 2. Double lacing
 - ☒ 3. Tie plates
 - ☒ 4. Single lacing

Question ID : 44100950579

Option 1 ID : 441009201525

Option 2 ID : 441009201524

Option 3 ID : 441009201526

Option 4 ID : 441009201523

Chosen Option : 3

Q.112 Which of the following factors does NOT affect the moment of inertia of an unsymmetrical angle section (L-section)?

- Ans**
- ☒ 1. Orientation of the angle section with respect to the reference axis
 - ☒ 2. Length of each leg of the angle section
 - ☒ 3. Material used to fabricate the angle section
 - ☒ 4. Thickness of the angle section

Question ID : 441009108135

Option 1 ID : 441009430563

Option 2 ID : 441009430560

Option 3 ID : 441009430562

Option 4 ID : 441009430561

Chosen Option : 1

Q.113 Lead glass is primarily used in which of the following applications due to its high refractive index and radiation shielding property?

- Ans**
- ☒ 1. Fire-resistant doors and partitions
 - ☒ 2. Radiation shielding in medical and research labs
 - ☒ 3. Window glazing for residential buildings
 - ☒ 4. Solar control glass panels

Question ID : 4410091180162

Option 1 ID : 4410094654775

Option 2 ID : 4410094654773

Option 3 ID : 4410094654774

Option 4 ID : 4410094654772

Chosen Option : 1

Q.114 In topographic maps, how does terrain slope affect the horizontal equivalent?

- Ans**
- ☒ 1. Gentle slopes have smaller horizontal equivalents.
 - ☒ 2. Steeper slopes have larger horizontal equivalents.
 - ☒ 3. Steeper slopes have smaller horizontal equivalents.
 - ☒ 4. Terrain slope has no effect.

Question ID : 441009307422

Option 1 ID : 4410091196361

Option 2 ID : 4410091196360

Option 3 ID : 4410091196362

Option 4 ID : 4410091196363

Chosen Option : 2

Q.115 In surveying with a theodolite, a vertical angle is measured between:

- Ans**
- ☒ 1. line of sight and horizontal line
 - ☒ 2. two vertical lines
 - ☒ 3. two horizontal points
 - ☒ 4. line of sight and vertical line

Question ID : 4410091081421

Option 1 ID : 4410094262809

Option 2 ID : 4410094262807

Option 3 ID : 4410094262806

Option 4 ID : 4410094262808

Chosen Option : 4

Q.116 What is the net effect of a rise in the water table within the influence zone below a foundation on the bearing capacity of the soil?

Ans ☒ 1. Decrease in bearing capacity

☐ 2. Increase in bearing capacity

☐ 3. No change in bearing capacity

☐ 4. Doubling of bearing capacity

Question ID : 4410091210685

Option 1 ID : 4410094776237

Option 2 ID : 4410094776236

Option 3 ID : 4410094776235

Option 4 ID : 4410094776234

Chosen Option : 1

Q.117 Which of the following is the primary mode of failure for a steel tension member?

Ans ☐ 1. Torsion

☐ 2. Crushing

☒ 3. Yielding

☐ 4. Buckling

Question ID : 441009100992

Option 1 ID : 441009401981

Option 2 ID : 441009401979

Option 3 ID : 441009401980

Option 4 ID : 441009401978

Chosen Option : 4

Q.118 Find the total cost of external plastering on both sides of the wall 5 m long and 3.2 m high, given the rate of external plastering is ₹130 per square meter.

Ans ☐ 1. ₹2,080

☐ 2. ₹3,000

☐ 3. ₹3,300

☒ 4. ₹4,160

Question ID : 4410091513515

Option 1 ID : 4410095978060

Option 2 ID : 4410095978059

Option 3 ID : 4410095978058

Option 4 ID : 4410095978061

Chosen Option : 1

Q.119 Which of the following correctly describes the Moment of Resistance in a beam subjected to pure bending?

- Ans**
- ☒ 1. It is the external moment applied to the beam that causes bending.
 - ☒ 2. It's a parameter that depends only on the length of the beam and is independent of material properties.
 - ☒ 3. It is the moment caused by shear forces acting on the beam.
 - ☒ 4. It is the internal resistance developed as bending stresses in the cross-section of beam, and that balances the externally applied moment.

Question ID : **44100979432**

Option 1 ID : **441009315555**

Option 2 ID : **441009315558**

Option 3 ID : **441009315557**

Option 4 ID : **441009315556**

Chosen Option : **2**

Q.120 When a little amount of cement is introduced into a pail of water during a field test, quality cement should:

- Ans**
- ☒ 1. Float for a long time
 - ☒ 2. Float for some time and sink gradually and disperse uniformly
 - ☒ 3. Immediately dissolve
 - ☒ 4. Sink slowly without spreading

Question ID : **4410091503965**

Option 1 ID : **4410095940174**

Option 2 ID : **4410095940177**

Option 3 ID : **4410095940175**

Option 4 ID : **4410095940176**

Chosen Option : **1**

Section : **General English**

Q.1 Select the most appropriate idiom to replace the highlighted text in the given sentence.

Ram persevered and kept up his hard work in spite of multiple setbacks. He, **in tough times, stayed resilient and resolute.**

Ans ☒ 1. hit the sack

☒ 2. kept his chin up

☒ 3. spilled the beans

☒ 4. threw in the towel

Question ID : **44100950260**

Option 1 ID : **441009200285**

Option 2 ID : **441009200284**

Option 3 ID : **441009200283**

Option 4 ID : **441009200286**

Chosen Option : **2**

Q.2 In the question given below, out of four alternatives, choose the one that can be substituted for the highlighted words.

The article ended with the **lines in a newspaper naming the writer of the article** below the headline.

Ans ☒ 1. tagline

☒ 2. byline

☒ 3. dateline

☒ 4. masthead

Question ID : **4410091600439**

Option 1 ID : **4410096321437**

Option 2 ID : **4410096321435**

Option 3 ID : **4410096321436**

Option 4 ID : **4410096321438**

Chosen Option : **1**

Q.3 Complete the sentence with the correct article.
 _____ Himalayas stand as a natural barrier between _____ Indian subcontinent and Central Asia.

- Ans**
- ☒ 1. A, an
- ☒ 2. The, the
- ☒ 3. The, an
- ☒ 4. An, the

Question ID : 4410091442828

Option 1 ID : 4410095699875

Option 2 ID : 4410095699876

Option 3 ID : 4410095699878

Option 4 ID : 4410095699877

Chosen Option : 4

Q.4 Choose the option that makes the sentence correct.
 'She was accused for theft by the police.'

- Ans**
- ☒ 1. She was accused of theft by the police.
- ☒ 2. She was accused theft by the police.
- ☒ 3. She was accused with theft by the police.
- ☒ 4. She was accused at theft by the police.

Question ID : 4410091677461

Option 1 ID : 4410096618090

Option 2 ID : 4410096618087

Option 3 ID : 4410096618089

Option 4 ID : 4410096618088

Chosen Option : 2

Q.5 Choose the most appropriate synonym of the highlighted word in the sentence given.
 He made a **conscientious** effort to complete the project on time.

- Ans**
- ☒ 1. Indifferent
- ☒ 2. Careless
- ☒ 3. Diligent
- ☒ 4. Passive

Question ID : 4410091532930

Option 1 ID : 4410096054786

Option 2 ID : 4410096054788

Option 3 ID : 4410096054789

Option 4 ID : 4410096054787

Chosen Option : 2

Q.6 Choose the most appropriate synonym of the highlighted word in the sentence given.
He remained **vigilant** throughout the night, watching for any sign of danger.

- Ans**
- ☒ 1. Reckless
 - ☒ 2. Weary
 - ☒ 3. Careless
 - ☒ 4. Alert

Question ID : 4410091532916

Option 1 ID : 4410096054733

Option 2 ID : 4410096054732

Option 3 ID : 4410096054731

Option 4 ID : 4410096054730

Chosen Option : 2

Q.7 Choose the meaning of the idiom "Hit the nail on the head".

- Ans**
- ☒ 1. To make a mistake
 - ☒ 2. To fail at a task
 - ☒ 3. To hurt yourself
 - ☒ 4. To be exactly right about something

Question ID : 441009220098

Option 1 ID : 441009863417

Option 2 ID : 441009863416

Option 3 ID : 441009863419

Option 4 ID : 441009863418

Chosen Option : 2

Comprehension:

Read the following passage carefully and answer the questions that follow.

Governments often impose tariffs—taxes on imported goods—to protect domestic industries and regulate trade. By making foreign products more expensive, tariffs encourage consumers to buy locally produced goods. While this may boost local businesses in the short term, it can also lead to trade tensions between countries. For example, retaliatory tariffs from other nations can reduce export opportunities for domestic producers. Moreover, higher import costs may lead to increased prices for everyday items, affecting consumers directly. In a global economy, tariffs can disrupt supply chains and limit product availability. Critics argue that while tariffs aim to strengthen national industries, they may unintentionally harm economic growth. Supporters, however, believe tariffs are necessary to prevent unfair competition and protect jobs. As countries navigate economic recovery and shifting alliances, the use of tariffs remains a powerful—but controversial—tool in shaping international trade policy.

SubQuestion No : 8

Q.8 What is the main theme of the paragraph?

Ans ☒ 1. The benefits of free travel

☒ 2. The role and impact of government tariffs on trade

☒ 3. The effect of tariffs on the stock market

☒ 4. How to avoid paying taxes

Question ID : **441009203265**

Option 1 ID : **441009799629**

Option 2 ID : **441009799628**

Option 3 ID : **441009799627**

Option 4 ID : **441009799626**

Chosen Option : **2**

Comprehension:

Read the following passage carefully and answer the questions that follow.

Governments often impose tariffs—taxes on imported goods—to protect domestic industries and regulate trade. By making foreign products more expensive, tariffs encourage consumers to buy locally produced goods. While this may boost local businesses in the short term, it can also lead to trade tensions between countries. For example, retaliatory tariffs from other nations can reduce export opportunities for domestic producers. Moreover, higher import costs may lead to increased prices for everyday items, affecting consumers directly. In a global economy, tariffs can disrupt supply chains and limit product availability. Critics argue that while tariffs aim to strengthen national industries, they may unintentionally harm economic growth. Supporters, however, believe tariffs are necessary to prevent unfair competition and protect jobs. As countries navigate economic recovery and shifting alliances, the use of tariffs remains a powerful—but controversial—tool in shaping international trade policy.

SubQuestion No : 9

Q.9 What is the tone of the paragraph?

- Ans**
- ☒ 1. Sarcastic and informal
 - ☒ 2. Balanced and analytical
 - ☒ 3. Strongly biased in favor of tariffs
 - ☒ 4. Completely against tariffs

Question ID : **441009203266**

Option 1 ID : **441009799633**

Option 2 ID : **441009799631**

Option 3 ID : **441009799630**

Option 4 ID : **441009799632**

Chosen Option : **4**

Comprehension:

Read the following passage carefully and answer the questions that follow.

Governments often impose tariffs—taxes on imported goods—to protect domestic industries and regulate trade. By making foreign products more expensive, tariffs encourage consumers to buy locally produced goods. While this may boost local businesses in the short term, it can also lead to trade tensions between countries. For example, retaliatory tariffs from other nations can reduce export opportunities for domestic producers. Moreover, higher import costs may lead to increased prices for everyday items, affecting consumers directly. In a global economy, tariffs can disrupt supply chains and limit product availability. Critics argue that while tariffs aim to strengthen national industries, they may unintentionally harm economic growth. Supporters, however, believe tariffs are necessary to prevent unfair competition and protect jobs. As countries navigate economic recovery and shifting alliances, the use of tariffs remains a powerful—but controversial—tool in shaping international trade policy.

SubQuestion No : 10**Q.10** What can be inferred about tariffs?

- Ans
- ☐ 1. They are banned in most countries
 - ☐ 2. They always benefit consumers
 - ☒ 3. They can lead to international conflicts and price increases
 - ☐ 4. They are only used during elections

Question ID : 441009203267

Option 1 ID : 441009799636

Option 2 ID : 441009799634

Option 3 ID : 441009799637

Option 4 ID : 441009799635

Chosen Option : 2

Section : Reasoning

Q.1 Each vowel in the word LICENSE is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. Which of the following letters will be fourth from the right in the new group of letters thus formed?

- Ans
- ☐ 1. D
 - ☒ 2. F
 - ☐ 3. M
 - ☐ 4. E

Question ID : 441009321461

Option 1 ID : 4410091252099

Option 2 ID : 4410091252097

Option 3 ID : 4410091252098

Option 4 ID : 4410091252100

Chosen Option : 4

Q.2 Read the given statement(s) and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

All burgers are sandwiches.
Some sandwiches are candies.
All candies are tables.

Conclusions:

(I) No burger is a candy
(II) Some sandwiches are tables

Ans ☒ 1. Neither conclusion I nor II follows

☒ 2. Both conclusions I and II follow

☒ 3. Only conclusion II follows

☒ 4. Only conclusion I follows

Question ID : **4410091289**

Option 1 ID : **4410095152**

Option 2 ID : **4410095151**

Option 3 ID : **4410095150**

Option 4 ID : **4410095149**

Chosen Option : --

Q.3 HA 9 is related to EC -5 following a certain logic. Following the same logic, WK 20 is related to TM 6. To which of the given options is RP 15 related, following the same logic?

Ans ☒ 1. OR 1

☒ 2. PR 3

☒ 3. OS 1

☒ 4. PS 3

Question ID : **44100934235**

Option 1 ID : **441009136350**

Option 2 ID : **441009136351**

Option 3 ID : **441009136352**

Option 4 ID : **441009136353**

Chosen Option : **2**

Q.4 What should come in place of ? in the given series based on the English alphabetical order?

QQQ OMO MKM KIK ?

Ans ☒ 1. GIG

☒ 2. IGI

☒ 3. IIG

☒ 4. KGI

Question ID : 4410091589736

Option 1 ID : 4410096279481

Option 2 ID : 4410096279480

Option 3 ID : 4410096279482

Option 4 ID : 4410096279483

Chosen Option : 2

Q.5 GY 19 is related to EV 12 following a certain logic. Following the same logic, OW 16 is related to MT 9. To which of the given options is QU 31 related, following the same logic?

Ans ☒ 1. PP 24

☒ 2. OP 22

☒ 3. OR 24

☒ 4. PR 22

Question ID : 44100921151

Option 1 ID : 44100984352

Option 2 ID : 44100984351

Option 3 ID : 44100984353

Option 4 ID : 44100984354

Chosen Option : 2

Q.6 What should come in place of '?' in the given series?
42 47 57 72 92 ?

Ans ☒ 1. 114

☒ 2. 115

☒ 3. 117

☒ 4. 119

Question ID : 4410091484234

Option 1 ID : 4410095863828

Option 2 ID : 4410095863826

Option 3 ID : 4410095863825

Option 4 ID : 4410095863827

Chosen Option : 3

Q.7 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans ☒ 1. OFW

☒ 2. DUL

☒ 3. GOX

☒ 4. LCT

Question ID : 441009346912

Option 1 ID : 4410091353720

Option 2 ID : 4410091353722

Option 3 ID : 4410091353719

Option 4 ID : 4410091353721

Chosen Option : 4

Q.8 Amar and Bablu are brothers. Mahima is the daughter of Amar. Vaibhav and Nishtha are son and daughter of Bablu, respectively. How is Amar related to Nishtha?

Ans ☒ 1. Father's brother

☒ 2. Father

☒ 3. Mother's brother

☒ 4. Brother

Question ID : 4410091485073

Option 1 ID : 4410095866769

Option 2 ID : 4410095866771

Option 3 ID : 4410095866770

Option 4 ID : 4410095866772

Chosen Option : 2

Q.9 What should come in place of '?' in the given series?
7, 8, 12, 21, 37, ?

Ans ☒ 1. 62

☒ 2. 61

☒ 3. 51

☒ 4. 52

Question ID : 4410091444225

Option 1 ID : 4410095705513

Option 2 ID : 4410095705514

Option 3 ID : 4410095705516

Option 4 ID : 4410095705515

Chosen Option : 4

Q.10 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

All beds are pillows.
All pillows are quilts.
All quilts are cushions.

Conclusions:

(I) All beds are cushions.
(II) Some cushions are pillows.2356

Ans ☒ 1. Both conclusions (I) and (II) follow

☐ 2. Only conclusion (I) follows

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

☐ 4. Only conclusion (II) follows

Question ID : 441009756680

Option 1 ID : 4410092980713

Option 2 ID : 4410092980716

Option 3 ID : 4410092980714

Option 4 ID : 4410092980715

Chosen Option : --

Q.11 Each of E, F, G, K, L, N and O has exam on a different day of a week starting from Monday and ending on Sunday of the same week. Only two people have exam between E and K. Only two people have exam between G and N. Only two people have exam between F and N. No one has exam after F. L has exam on one of the days before O. K has exam immediately after O. Who has exam on Wednesday?

Ans ☐ 1. K

☐ 2. L

☐ 3. O

☒ 4. E

Question ID : 4410091576839

Option 1 ID : 4410096228265

Option 2 ID : 4410096228262

Option 3 ID : 4410096228264

Option 4 ID : 4410096228263

Chosen Option : 2

Q.12 Each of L, M, N, O, D, E and F has an interview on a different day of a week starting from Monday and ending on Sunday of the same week. Only three people have interview between N and L. Only three people have interview between D and F. M has interview on some day before E and on some day after O. Only L has interview after F. How many people have interview after N?

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

Question ID : **44100933986**

Option 1 ID : **441009135197**

Option 2 ID : **441009135194**

Option 3 ID : **441009135196**

Option 4 ID : **441009135195**

Chosen Option : **3**

Q.13 In this question, a statement is given followed by two courses of action, numbered I and II. You must assume everything in the statement to be true, and on the basis of the information given in the statement, decide which of the given courses of action logically follow(s) for pursuing.

Statement:

The results of a school show that students are underperforming in mathematics consistently over the years.

Courses of Action:

I. Special training sessions should be organised for mathematics teachers.

II. Mathematics should be removed from the core curriculum to reduce stress.

- Ans**
- ☒ 1. Both I and II follow.
- ☒ 2. Only I follows.
- ☒ 3. Neither I nor II follows.
- ☒ 4. Only II follows.

Question ID : **441009355219**

Option 1 ID : **4410091386977**

Option 2 ID : **4410091386974**

Option 3 ID : **4410091386976**

Option 4 ID : **4410091386975**

Chosen Option : **2**

Q.14 Seven people, H, E, L, P, I, N and G are sitting in a row, facing north. Only three people sit to the left of H. Only P sits to the right of L. Only three people sit between L and E. N sits at some place to the left of G but at some place to the right of I. How many people sit between I and G?

Ans ☒ 1. Six

☒ 2. Four

☒ 3. Three

☒ 4. Five

Question ID : 4410091567974

Option 1 ID : 4410096193179

Option 2 ID : 4410096193181

Option 3 ID : 4410096193180

Option 4 ID : 4410096193178

Chosen Option : 2

Q.15 Refer to the given letter, symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) B = £ N D % C & F * U # G < M P + A @ > F * T L (Right)

How many such symbols are there each of which is immediately preceded by a letter and also immediately followed by another symbol?

Ans ☒ 1. Two

☒ 2. Four

☒ 3. One

☒ 4. Three

Question ID : 44100923756

Option 1 ID : 44100994747

Option 2 ID : 44100994746

Option 3 ID : 44100994748

Option 4 ID : 44100994745

Chosen Option : 2

Section : Quantitative Aptitude

Q.1 A lemonade recipe uses 5 lemons to prepare 7 glasses of lemonade. If the same ratio is maintained, how many lemons are required to make 35 glasses of lemonade?

- Ans**
- ☐ 1. 27
- ☒ 2. 25
- ☐ 3. 26
- ☐ 4. 28

Question ID : 4410091501503

Option 1 ID : 4410095930426

Option 2 ID : 4410095930425

Option 3 ID : 4410095930424

Option 4 ID : 4410095930427

Chosen Option : 2

Q.2 A drone flies 120 km north at a speed of 60 km/h and then returns to the starting point by flying 120 km south at a speed of 40 km/h. Find the average speed of the drone for the entire journey.

- Ans**
- ☐ 1. 52 km/h
- ☒ 2. 48 km/h
- ☐ 3. 50 km/h
- ☐ 4. 45 km/h

Question ID : 4410091623598

Option 1 ID : 4410096412978

Option 2 ID : 4410096412977

Option 3 ID : 4410096412976

Option 4 ID : 4410096412979

Chosen Option : 2

Q.3 The base of a triangle is 20 cm and the corresponding height is 12 cm. Find its area.

- Ans**
- ☐ 1. 112 cm²
- ☐ 2. 150 cm²
- ☐ 3. 124 cm²
- ☒ 4. 120 cm²

Question ID : 4410091293594

Option 1 ID : 4410095106538

Option 2 ID : 4410095106537

Option 3 ID : 4410095106536

Option 4 ID : 4410095106535

Chosen Option : 3

Q.4 In what ratio must a grocer mix two varieties of rice worth ₹53 per kg and ₹86 per kg so that if he sells the mixture at ₹90 per kg he may gain 25%?

Ans ☒ 1. 13:24

☒ 2. 14:19

☒ 3. 12:23

☒ 4. 11:15

Question ID : 441009580087

Option 1 ID : 4410092275476

Option 2 ID : 4410092275474

Option 3 ID : 4410092275475

Option 4 ID : 4410092275477

Chosen Option : 2

Q.5 The HCF and LCM of two numbers are 1445 and 4335, respectively. If the ratio of the two numbers is 1 : 3, then find the larger of the two numbers.

Ans ☒ 1. 2035

☒ 2. 1045

☒ 3. 3095

☒ 4. 4335

Question ID : 4410091525039

Option 1 ID : 4410096023355

Option 2 ID : 4410096023356

Option 3 ID : 4410096023357

Option 4 ID : 4410096023358

Chosen Option : 2

Q.6 During a sale, 50% of the goods are sold at 34% profit, 20% of the remaining goods are sold at 36% profit and the still remaining goods are sold at a loss of 29%. If there is an overall profit of x%, then what is the value of x?

Ans ☒ 1. 9.5

☒ 2. 9

☒ 3. 8.5

☒ 4. 10

Question ID : 441009547545

Option 1 ID : 4410092145577

Option 2 ID : 4410092145576

Option 3 ID : 4410092145579

Option 4 ID : 4410092145578

Chosen Option : --

Q.7 The difference between compound interest (compounded annually) and simple interest on ₹5,000 for 2 years is ₹50. Find the rate of interest per annum.

- Ans**
- ☒ 1. 12%
- ☒ 2. 10%
- ☒ 3. 6%
- ☒ 4. 8.5%

Question ID : 441009290293

Option 1 ID : 4410091128108

Option 2 ID : 4410091128109

Option 3 ID : 4410091128107

Option 4 ID : 4410091128110

Chosen Option : 2

Q.8 Rohit's income is ₹5,000 and his expenditure is ₹4,000. If his income increases by 10% and expenditure by 5%, find the increase in his savings.

- Ans**
- ☒ 1. ₹300
- ☒ 2. ₹360
- ☒ 3. ₹280
- ☒ 4. ₹400

Question ID : 4410091384933

Option 1 ID : 4410095470488

Option 2 ID : 4410095470490

Option 3 ID : 4410095470491

Option 4 ID : 4410095470489

Chosen Option : 2

Q.9 A cistern of 800 litres is to be filled. Pipe A fills at the rate 160 litres/hour, Pipe B fills at the rate 240 litres/hour. If Pipe B is opened 1 hour after Pipe A, how long will it take in all to fill the cistern?

- Ans**
- ☒ 1. 3 hours
- ☒ 2. 4.8 hours
- ☒ 3. 2.6 hours
- ☒ 4. 2 hours

Question ID : 4410091879590

Option 1 ID : 4410097405356

Option 2 ID : 4410097405354

Option 3 ID : 4410097405355

Option 4 ID : 4410097405353

Chosen Option : 2

Q.10 Three fair dice are thrown simultaneously. Find the probability that either all three dice show the same number or the sum of the numbers on the three dice is less than 7.

Ans ☒ 1. $\frac{25}{216}$

☒ 2. $\frac{23}{216}$

☒ 3. $\frac{1}{12}$

☒ 4. $\frac{1}{9}$

Question ID : 4410091226376

Option 1 ID : 4410094838988

Option 2 ID : 4410094838989

Option 3 ID : 4410094838990

Option 4 ID : 4410094838987

Chosen Option : 2

Q.11 Solve $(2x - 3y)^3 + (3y - 4z)^3 + (-2x + 4z)^3$

Ans ☒ 1. $(2x-3y)(3y-4z)(-2x+4z)$

☒ 2. $3(2x-3y)(3y-4z)(2x-4z)$

☒ 3. $3(2x-3y)(3y-4z)(-2x+4z)$

☒ 4. 0

Question ID : 441009157438

Option 1 ID : 441009624920

Option 2 ID : 441009624922

Option 3 ID : 441009624921

Option 4 ID : 441009624919

Chosen Option : 2

Q.12 The area of two similar triangles are in the ratio 12,100 : 484. I then find the remainder when 2^{mn} is divided by 5.

Ans ☒ 1. 2

☐ 2. 4

☐ 3. 1

☐ 4. 3

Question ID : 441009602981

Option 1 ID : 4410092367042

Option 2 ID : 4410092367044

Option 3 ID : 4410092367041

Option 4 ID : 4410092367043

Chosen Option : 2

Q.13 A wholesaler offers an article with a list price of ₹50,000. He allows two successive discounts of 28% and 5% on the list price. What amount will the buyer have to pay for the article?

Ans ☐ 1. ₹34,500

☐ 2. ₹33,500

☐ 3. ₹32,400

☒ 4. ₹34,200

Question ID : 4410091442152

Option 1 ID : 4410095697271

Option 2 ID : 4410095697272

Option 3 ID : 4410095697270

Option 4 ID : 4410095697269

Chosen Option : 2

Q.14 The angle of elevation of the top B of a vertical tower AB from a point C on the ground is 60° . From point D which is vertically above C by 50 m, the angle of elevation of B is 45° . Find the ratio between the distance BC and BD.

Ans ☐ 1. $3:\sqrt{2}$

☐ 2. $2:\sqrt{2}$

☒ 3. $1:\sqrt{2}$

☐ 4. $\sqrt{3}:\sqrt{2}$

Question ID : 4410091706748

Option 1 ID : 4410096731783

Option 2 ID : 4410096731782

Option 3 ID : 4410096731781

Option 4 ID : 4410096731784

Chosen Option : 2

Q.15 Salil borrowed a sum of ₹12,000 at a certain rate of simple interest for 2 years. If he paid an interest of ₹3,000 at the end of the period at x% per annum rate of interest, the value of x is:

Ans ✓ 1. 12.5

✗ 2. 14.5

✗ 3. 11.5

✗ 4. 13.5

Question ID : 441009516864

Option 1 ID : 4410092022875

Option 2 ID : 4410092022877

Option 3 ID : 4410092022878

Option 4 ID : 4410092022876

Chosen Option : 2

Section : General Knowledge

Q.1 The reign of Shah Jahan is known as which of the following eras?

Ans ✗ 1. Religious reforms

✗ 2. Military conquests

✓ 3. Golden Age of Mughals

✗ 4. Age of comprehensive land reforms under the Mughals

Question ID : 4410091513623

Option 1 ID : 4410095978474

Option 2 ID : 4410095978476

Option 3 ID : 4410095978475

Option 4 ID : 4410095978477

Chosen Option : 2

Q.2 Where was the 25th Council of Heads of State Summit (2025) of the Shanghai Cooperation Organisation held?

Ans ✗ 1. Tajikistan

✓ 2. China

✗ 3. Kazakhstan

✗ 4. India

Question ID : 4410091468420

Option 1 ID : 4410095801556

Option 2 ID : 4410095801553

Option 3 ID : 4410095801555

Option 4 ID : 4410095801554

Chosen Option : 4

Q.3 Which constitutional post is mentioned under Article 63 of the Indian Constitution?

Ans ☒ 1. President of India

☒ 2. Vice President of India

☒ 3. Council of Ministers

☒ 4. Governor

Question ID : 4410091181394

Option 1 ID : 4410094659705

Option 2 ID : 4410094659706

Option 3 ID : 4410094659707

Option 4 ID : 4410094659708

Chosen Option : 4

Q.4 Which of the following happens to heat (Q) and temperature (T) during the phase change of melting?

Ans ☒ 1. Q remains constant, but T increases.

☒ 2. Both Q and T increase.

☒ 3. Q increases, but T remains constant.

☒ 4. Both Q and T decrease.

Question ID : 4410091573379

Option 1 ID : 4410096214298

Option 2 ID : 4410096214300

Option 3 ID : 4410096214297

Option 4 ID : 4410096214299

Chosen Option : 1

Q.5 Under the new GST framework in 2025, what tax rate applies to ultra-luxury items?

Ans ☒ 1. 40%

☒ 2. 45%

☒ 3. 20%

☒ 4. 30%

Question ID : 4410091468581

Option 1 ID : 4410095802164

Option 2 ID : 4410095802165

Option 3 ID : 4410095802162

Option 4 ID : 4410095802163

Chosen Option : 2

Q.6 Which countries were involved in the agreement that led to the Constitution (One Hundredth Amendment) Act, 2015?

Ans ☒ 1. India and Bangladesh

☐ 2. India and Nepal

☐ 3. India and Pakistan

☐ 4. India and Sri Lanka

Question ID : 4410091616222

Option 1 ID : 4410096383823

Option 2 ID : 4410096383822

Option 3 ID : 4410096383825

Option 4 ID : 4410096383824

Chosen Option : 3

Q.7 According to the instrument classification system described in the Nāṭya Śāstra by Bharata Muni, percussion instruments in which sound is produced by a stretched membrane (membranophones) are classified under which category?

Ans ☐ 1. Sushir Vadya

☒ 2. Avanaddha Vadya

☐ 3. Tat Vadya

☐ 4. Ghan Vadya

Question ID : 4410091695682

Option 1 ID : 4410096688728

Option 2 ID : 4410096688726

Option 3 ID : 4410096688725

Option 4 ID : 4410096688727

Chosen Option : 2

Q.8 Which of the following rivers is known as the "Sorrow of Bihar" due to frequent floods?

Ans ☐ 1. Godavari

☒ 2. Kosi

☐ 3. Ganga

☐ 4. Brahmaputra

Question ID : 4410091324835

Option 1 ID : 4410095230824

Option 2 ID : 4410095230822

Option 3 ID : 4410095230821

Option 4 ID : 4410095230823

Chosen Option : 2

Q.9 Which of the following actions by the Reserve Bank of India can increase the money supply in the economy?

Ans ☒ 1. Reducing bank rate

☐ 2. Selling of bonds in the market

☐ 3. Increasing cash reserve ratio

☐ 4. Increasing repo rate

Question ID : 441009230064

Option 1 ID : 441009899300

Option 2 ID : 441009899301

Option 3 ID : 441009899303

Option 4 ID : 441009899302

Chosen Option : 2

Q.10 As per the Economic Survey 2024-25, the contribution of services sector to the total Gross Value Added (GVA) at current prices has reached what levels?

Ans ☐ 1. 52.8%

☒ 2. 55.3%

☐ 3. 58.9%

☐ 4. 59.3%

Question ID : 441009639651

Option 1 ID : 4410092512745

Option 2 ID : 4410092512746

Option 3 ID : 4410092512747

Option 4 ID : 4410092512748

Chosen Option : 2