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| Participant ID | |
| Participant Name | |
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| Test Date | 12/04/2025 |
| Test Time | 2:00 PM - 4:30 PM |
| Subject | Engineer Trainee Civil |

Section : Section I Question on Subject Discipline

Q.1 What is the principal constituent of calcareous rocks?

Ans ☒ A. Lime☐ B. Sand☐ C. Silica☐ D. Clay

Question ID : 44100954470

Option 1 ID : 441009216858

Option 2 ID : 441009216861

Option 3 ID : 441009216859

Option 4 ID : 441009216860

Status : Answered

Chosen Option : A

Q.2 Which of the following is a direct application of Euler's equation of motion in fluid dynamics?

Ans ☐ A. Analysis of viscous shear stress in boundary layers☐ B. Calculation of flow losses in turbulent pipes☐ C. Determination of hydraulic jump characteristics☒ D. Derivation of Bernoulli's equation for inviscid flow

Question ID : 44100952998

Option 1 ID : 441009211075

Option 2 ID : 441009211073

Option 3 ID : 441009211074

Option 4 ID : 441009211072

Status : Answered

Chosen Option : D

Q.3 A steel specimen with a cross-sectional area of 10 mm × 10 mm is tested in a Charpy impact test. The pendulum strikes the specimen and breaks it, absorbing 15 Joules of energy in the process. What is the impact strength of the material in J/mm²?

- Ans**
- ☒ A. 0.15 J/m²
 - ☒ B. 0.15 J/mm²
 - ☒ C. 0.10 J/mm²
 - ☒ D. 15 J/mm²

| | |
|-----------------|--------------|
| Question ID : | 44100946901 |
| Option 1 ID : | 441009186738 |
| Option 2 ID : | 441009186739 |
| Option 3 ID : | 441009186737 |
| Option 4 ID : | 441009186740 |
| Status : | Answered |
| Chosen Option : | B |

Q.4 Which unit is used to measure the colour of water in the Colour Test for water quality assessment?

- Ans**
- ☒ A. Parts Per Million (PPM)
 - ☒ B. Jackson Turbidity Unit (JTU)
 - ☒ C. Platinum-Cobalt Unit (PCU)
 - ☒ D. Nephelometric Turbidity Unit (NTU)

| | |
|-----------------|--------------|
| Question ID : | 441009102299 |
| Option 1 ID : | 441009407218 |
| Option 2 ID : | 441009407215 |
| Option 3 ID : | 441009407217 |
| Option 4 ID : | 441009407216 |
| Status : | Answered |
| Chosen Option : | C |

Q.5 How does increasing the compression reinforcement affect the moment of resistance of a doubly reinforced beam?

- Ans**
- ☒ A. Decreases moment resistance
 - ☒ B. Reduces neutral axis depth
 - ☒ C. Has no effect
 - ☒ D. Increases moment resistance

| | |
|-----------------|--------------|
| Question ID : | 44100925270 |
| Option 1 ID : | 441009100784 |
| Option 2 ID : | 441009100786 |
| Option 3 ID : | 441009100785 |
| Option 4 ID : | 441009100783 |
| Status : | Not Answered |
| Chosen Option : | -- |

Q.6 A bag filter has a flow rate of 2,000 m³/min and an effective filtration area of 500 m². What is the air-to-cloth ratio?

Ans ☒ A. 1 m³/min/m²

☒ B. 2 m³/min/m²

☒ C. 4 m³/min/m²

☒ D. 8 m³/min/m²

Question ID : 44100981117

Option 1 ID : 441009322110

Option 2 ID : 441009322111

Option 3 ID : 441009322112

Option 4 ID : 441009322113

Status : Answered

Chosen Option : C

Q.7 Which of the following statements is INCORRECT with respect to shrinkage of concrete?

Ans ☒ A. Shrinkage is due to water reacting on the cement, and the physical drying out of the mass.

☒ B. Shrinkage is reduced by the use of harder and denser aggregates of low absorption.

☒ C. Other things being equal, shrinkage is indirectly proportional to the amount of water in the mix.

☒ D. Shrinkage causes the bonding between the concrete and the reinforcement.

Question ID : 44100954636

Option 1 ID : 441009217526

Option 2 ID : 441009217525

Option 3 ID : 441009217524

Option 4 ID : 441009217527

Status : Answered

Chosen Option : D

Q.8 Match the following horizontal alignment elements with their primary function:

Element Function

P.I. (Point of Intersection) 1. Location where the two tangents meet
Transition Curve 2. Smoothly connects a straight and circular curve
Superelevation 3. Reduces lateral friction and overturning effects
Radius of Curve 4. Determines sharpness of horizontal curve

Ans ☒ A. P-I → 1, Transition Curve → 2, Superelevation → 3, Radius of Curve → 4

☒ B. P-I → 1, Transition Curve → 4, Superelevation → 2, Radius of Curve → 3

☒ C. P-I → 3, Transition Curve → 2, Superelevation → 1, Radius of Curve → 4

☒ D. P-I → 4, Transition Curve → 1, Superelevation → 3, Radius of Curve → 2

Question ID : 44100968781

Option 1 ID : 441009273756

Option 2 ID : 441009273758

Option 3 ID : 441009273757

Option 4 ID : 441009273755

Status : Answered

Chosen Option : A

Q.9 The Gumbel distribution is represented graphically by plotting a graph of:

- Ans ☒ A. reduced variant versus flood magnitude
- ☒ B. rainfall intensity versus time
- ☒ C. discharge versus return period
- ☒ D. depth versus velocity

Question ID : 44100966272

Option 1 ID : 441009264037

Option 2 ID : 441009264034

Option 3 ID : 441009264035

Option 4 ID : 441009264036

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.1 Pick the pair in which the words share the same relationship with each other as the words of pair given in the stem.

Bleeding in concrete : Excess water rising to the surface :: Segregation in concrete :

- Ans ☒ A. Increased bonding strength
- ☒ B. Uniform mixing of materials
- ☒ C. Rapid setting of concrete
- ☒ D. Separation of coarse aggregates

Question ID : 44100931339

Option 1 ID : 441009124855

Option 2 ID : 441009124852

Option 3 ID : 441009124854

Option 4 ID : 441009124853

Status : Answered

Chosen Option : D

Q.1 If the area of water surface is greater, what can be said about the water loss due to evaporation?

- Ans ☒ A. It is greater.
- ☒ B. There is unit evaporation loss.
- ☒ C. There is no evaporation loss.
- ☒ D. It is lesser.

Question ID : 44100962499

Option 1 ID : 441009249065

Option 2 ID : 441009249067

Option 3 ID : 441009249066

Option 4 ID : 441009249064

Status : Answered

Chosen Option : D

Q.1 What is the recommended spacing for street lights on highways?

2

Ans ☒ A. Five times the height of the pole

☒ B. Less than the height of the pole

☒ C. Equal to the height of the pole

☒ D. Depends on road width and illumination requirements

Question ID : 44100931523

Option 1 ID : 441009125577

Option 2 ID : 441009125578

Option 3 ID : 441009125576

Option 4 ID : 441009125579

Status : Marked For Review

Chosen Option : D

Q.1 In hilly terrain, the recommended highway alignment should:

3

Ans ☒ A. ignore natural drainage patterns

☒ B. have sharp curves to save space

☒ C. avoid deep cuttings and excessive gradients

☒ D. follow the steepest slope for the shortest distance

Question ID : 44100979781

Option 1 ID : 441009316917

Option 2 ID : 441009316916

Option 3 ID : 441009316915

Option 4 ID : 441009316914

Status : Answered

Chosen Option : C

Q.1 What does a Froude number (F_r) greater than 1 indicate in an open channel flow?

4

Ans ☒ A. The flow is supercritical and inertia forces dominate

☒ B. The flow is critical, meaning inertial and gravitational forces are balanced

☒ C. The flow is uniform and not influenced by gravity

☒ D. The flow is subcritical and gravity effects dominate

Question ID : 44100951378

Option 1 ID : 441009204652

Option 2 ID : 441009204653

Option 3 ID : 441009204654

Option 4 ID : 441009204651

Status : Answered

Chosen Option : A

Q.1 What does the Limit State Design approach in structural engineering ensure?
5

- Ans
- ☐ A. The structure will be constructed using the least expensive materials.
 - ☐ B. The structure is allowed to deflect beyond permissible limits under service loads.
 - ☒ C. The structure will remain functional and safe throughout its lifespan.
 - ☐ D. The aesthetic appearance of the structure is prioritised over safety and durability.

Question ID : 44100953731

Option 1 ID : 441009213907

Option 2 ID : 441009213908

Option 3 ID : 441009213906

Option 4 ID : 441009213909

Status : Answered

Chosen Option : B

Q.1 In a pre-tensioned concrete member, which of the following losses is most significant?
6

- Ans
- ☐ A. Anchorage slip
 - ☒ B. Elastic shortening(deformation) of concrete
 - ☐ C. Loss due to relaxation of steel
 - ☐ D. Loss due to friction

Question ID : 44100925677

Option 1 ID : 441009102332

Option 2 ID : 441009102331

Option 3 ID : 441009102334

Option 4 ID : 441009102333

Status : Answered

Chosen Option : C

Q.1 In flow of water through non-homogenous sections, the water flows through a soil of permeability k_1 to the soil of permeability k_2 . Which of the following statements are correct?
7

1. If $k_1 > k_2$, the flow line will get deflected towards normal.
2. If $k_1 > k_2$, the flow line will get deflected away from the normal.
3. If $k_1 > k_2$, the flow line will not deflect.
4. If $10 k_1 < k_2$, the deflection correction in flow line is not necessary.

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

Question ID : 44100941162

Option 1 ID : 441009164084

Option 2 ID : 441009164087

Option 3 ID : 441009164085

Option 4 ID : 441009164086

Status : Marked For Review

Chosen Option : A

Q.1 A pile load test was carried out on a pile with 300 mm diameter and 10 m length. The load test showed that, 500 kN load caused 12 mm settlement and 600 kN load caused 30 mm settlement. Find the allowable load on pile as per IS 2911.

- Ans ☒ A. 300 kN
- ☐ B. 333.33 kN
- ☐ C. 286 kN
- ☐ D. Insufficient data

Question ID : 44100948648

Option 1 ID : 441009193905

Option 2 ID : 441009193904

Option 3 ID : 441009193906

Option 4 ID : 441009193907

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.1 What is flow duration curve also known as?

- Ans ☒ A. Discharge frequency curve
- ☐ B. Double mass curve
- ☐ C. Hydrograph
- ☐ D. Hyetograph

Question ID : 44100966306

Option 1 ID : 441009264170

Option 2 ID : 441009264171

Option 3 ID : 441009264172

Option 4 ID : 441009264173

Status : Answered

Chosen Option : C

Q.2 Which of the following is an example of an aerobic wastewater treatment process?

- Ans ☐ A. Anaerobic lagoon
- ☐ B. Imhoff tank
- ☐ C. Septic tank
- ☒ D. Trickling filter

Question ID : 44100979719

Option 1 ID : 441009316669

Option 2 ID : 441009316668

Option 3 ID : 441009316667

Option 4 ID : 441009316666

Status : Answered

Chosen Option : D

Q.2 In RCC L-beams, when does the moment of resistance calculation require separate treatment for flange and web?

Where,
 x_u = Depth of the neutral axis
 D_f = Thickness (depth) of the flange

Ans ☒ A. When compressive reinforcement is absent

☒ B. When; ($x_u < D_f$)

☒ C. When; ($x_u > D_f$)

☒ D. When tensile reinforcement is minimal

Question ID : 44100925283

Option 1 ID : 441009100836

Option 2 ID : 441009100838

Option 3 ID : 441009100837

Option 4 ID : 441009100835

Status : Answered

Chosen Option : C

Q.2 With respect to seepage through soils, identify the correct statements regarding the Laplace equation.

- A. Laplace equation is derived from the equation of continuity.
 B. Laplace equation is valid for flow problems, when the flow is both laminar and turbulent.
 C. Laplace equation can be applied to solve heat flow problems.
 D. Solution to Laplace equation, gives settlement of soils, after seepage of water.

Ans ☒ A. A and C

☒ B. B and C

☒ C. A and D

☒ D. B and D

Question ID : 44100944208

Option 1 ID : 441009176287

Option 2 ID : 441009176289

Option 3 ID : 441009176288

Option 4 ID : 441009176290

Status : Answered

Chosen Option : D

Q.2 What is the function of a tack coat in flexible pavement construction?
3

Ans ☒ A. Improve the bond between old and new asphalt layers

☐ B. Prevent water infiltration

☐ C. Act as a wearing course

☐ D. Strengthen the base course

Question ID : 44100926526

Option 1 ID : 441009105727

Option 2 ID : 441009105726

Option 3 ID : 441009105728

Option 4 ID : 441009105725

Status : Answered

Chosen Option : C

Q.2 Which is the most effective method for controlling taste and odour in drinking water treatment?
4

Ans ☐ A. Filtration through sand beds

☐ B. Coagulation with alum

☐ C. Boiling

☒ D. Activated carbon adsorption

Question ID : 441009102317

Option 1 ID : 441009407290

Option 2 ID : 441009407289

Option 3 ID : 441009407287

Option 4 ID : 441009407288

Status : Answered

Chosen Option : C

Q.2 According to IS 456:2000, what is the maximum permissible final defl and shrinkage?
5

Ans ☒ A. $\frac{\text{Span}}{250}$

☐ B. $\frac{\text{Span}}{200}$

☐ C. $\frac{\text{Span}}{500}$

☐ D. $\frac{\text{Span}}{300}$

Question ID : 44100925294

Option 1 ID : 441009100880

Option 2 ID : 441009100879

Option 3 ID : 441009100882

Option 4 ID : 441009100881

Status : Answered

Chosen Option : A

Q.2 Which of the following factors affects the partial factor of safety of load in Limit State Design (LSD)?

- Ans ☒ A. The type of material used
- ☒ B. The temperature of the structure
- ☒ C. The type and uncertainty of the load
- ☒ D. The deflection criteria of the structure

Question ID : 44100953723

Option 1 ID : 441009213874

Option 2 ID : 441009213877

Option 3 ID : 441009213875

Option 4 ID : 441009213876

Status : Answered

Chosen Option : C

Q.2 A simply supported beam of span 'L' carries a point load 'P' at a distance 'a' from the left support. If the reactions at the supports are R_A and R_B , which of the following statements is correct regarding the location of the point of contraflexure in this beam?

- Ans ☒ A. The point of contraflexure is always at the midpoint of the beam.
- ☒ B. A simply supported beam under a single point load does not have a point of contraflexure.
- ☒ C. The point of contraflexure lies at a distance $a/2$ from the left support.
- ☒ D. The point of contraflexure is located at the section where the shear force is zero.

Question ID : 44100946665

Option 1 ID : 441009185806

Option 2 ID : 441009185805

Option 3 ID : 441009185803

Option 4 ID : 441009185804

Status : Answered

Chosen Option : B

Q.2 The Terzaghi's one-dimensional consolidation equation relates:

- Ans ☒ A. shear strength of soil to cohesion and angle of internal friction
- ☒ B. effective stress and void ratio
- ☒ C. dissipation pore water pressure with time to the variation of pore water pressure along the depth of soil
- ☒ D. effective stress and degree of consolidation

Question ID : 44100941005

Option 1 ID : 441009163501

Option 2 ID : 441009163504

Option 3 ID : 441009163502

Option 4 ID : 441009163503

Status : Answered

Chosen Option : B

Q.2 The standard penetration test was done on a sand layer at a depth of 10 m. The unit weight of sand was 20 kN/m^3 and the SPT number obtained was 30. Find the SPT number after overburden correction. Use correction factor given by Peck, Hanson and Thornburn.

- Ans** ☒ A. 31
☒ B. 28
☒ C. 23
☒ D. 35

Question ID : 44100951211
Option 1 ID : 441009203994
Option 2 ID : 441009203997
Option 3 ID : 441009203995
Option 4 ID : 441009203996
Status : Answered
Chosen Option : C

Q.3 A wastewater treatment plant receives an influent flow of $10,000 \text{ m}^3/\text{day}$ with a Total Suspended Solids (TSS) concentration of 200 mg/L . If the plant removes 80% of the TSS, calculate the total mass of TSS discharged in the effluent.

- Ans** ☒ A. 400 kg/day
☒ B. 300 kg/day
☒ C. 500 kg/day
☒ D. 200 kg/day

Question ID : 44100979673
Option 1 ID : 441009316492
Option 2 ID : 441009316491
Option 3 ID : 441009316493
Option 4 ID : 441009316490
Status : Answered
Chosen Option : A

Q.3 Which of the following defects is NOT typically found in railway rails?

- 1**
Ans ☒ A. Hogging
☒ B. Scaling
☒ C. Buckling
☒ D. Scabbing

Question ID : 44100968741
Option 1 ID : 441009273595
Option 2 ID : 441009273598
Option 3 ID : 441009273596
Option 4 ID : 441009273597
Status : Answered
Chosen Option : D

Q.3 Match the following types of crossings with their features:
2

Type of Crossing Feature

1. Acute angle crossing A) Crossing angle $< 90^\circ$
2. Obtuse angle crossing B) Crossing angle $> 90^\circ$
3. Diamond crossing C) Two tracks cross each other at an angle
4. Scissors crossing D) Allows crossing over of parallel tracks

Ans ☒ A. 1-D, 2-C, 3-B, 4-A

☒ B. 1-B, 2-A, 3-D, 4-C

☒ C. 1-A, 2-B, 3-C, 4-D

☒ D. 1-C, 2-D, 3-A, 4-B

Question ID : 44100968721

Option 1 ID : 441009273516

Option 2 ID : 441009273518

Option 3 ID : 441009273517

Option 4 ID : 441009273515

Status : Answered

Chosen Option : C

Q.3 Which of the following environmental factors should be considered when designing an airport runway?
3

Ans ☒ A. Local political landscape

☒ B. Effect on local wildlife and ecosystems

☒ C. Number of surrounding businesses

☒ D. Aesthetic appearance of the terminal

Question ID : 44100926411

Option 1 ID : 441009105265

Option 2 ID : 441009105266

Option 3 ID : 441009105267

Option 4 ID : 441009105268

Status : Answered

Chosen Option : B

Q.3 The Golden Quadrilateral (GQ) project connects which of the following major cities of India?
4

Ans ☒ A. Chennai, Jaipur, Lucknow, Hyderabad

☒ B. Delhi, Hyderabad, Chennai, Bangalore

☒ C. Mumbai, Pune, Ahmedabad, Kolkata

☒ D. Delhi, Mumbai, Chennai, Kolkata

Question ID : 44100979751

Option 1 ID : 441009316797

Option 2 ID : 441009316795

Option 3 ID : 441009316796

Option 4 ID : 441009316794

Status : Answered

Chosen Option : D

Q.3 According to Rankine's theory, the ratio of coefficient of active earth pressure and the coefficient of earth pressure at rest is:

- Ans ☐ A. $(1 - \sin \phi)$
- ☒ B. $1/(1 + \sin \phi)$
- ☐ C. $(1 + \sin \phi)$
- ☐ D. $1/(1 - \sin \phi)$

Question ID : 44100949489

Option 1 ID : 441009197231

Option 2 ID : 441009197228

Option 3 ID : 441009197230

Option 4 ID : 441009197229

Status : Answered

Chosen Option : A

Q.3 A simply supported beam of span L' carries a uniformly varying load (UVL), increasing from zero at the left support to w_0 at the right support. Which of the following statements regarding the Shear Force (SF) and Bending Moment (BM) diagrams is correct?

- Ans ☐ A. The Shear Force diagram is a quartic curve, and the Bending Moment diagram is a cubic curve.
- ☒ B. The Shear Force diagram is a parabolic curve, and the Bending Moment diagram is a cubic curve.
- ☐ C. The Shear Force diagram is a linear curve, and the Bending Moment diagram is a quadratic curve.
- ☐ D. The Shear Force diagram is a cubic curve, and the Bending Moment diagram is a quartic curve.

Question ID : 44100946644

Option 1 ID : 441009185726

Option 2 ID : 441009185723

Option 3 ID : 441009185724

Option 4 ID : 441009185725

Status : Answered

Chosen Option : B

Q.3 What is the recommended lap length for flexural tension members as per IS456:2000 (ignoring cover details)?

Where,
 ϕ = diameter of the reinforcing bar

- Ans ☐ A. 1.3 times the development length
- ☐ B. 20 times the bar diameter (ϕ) or 30ϕ , whichever is greater
- ☒ C. Development length (L_d) or 30ϕ , whichever is greater
- ☐ D. Twice the development length

Question ID : 44100925247

Option 1 ID : 441009100693

Option 2 ID : 441009100691

Option 3 ID : 441009100692

Option 4 ID : 441009100694

Status : Answered

Chosen Option : C

Q.3 Identify the option that governs free flow in a water transmission system.
8

- Ans**
- ☒ A. Material of the pipe
 - ☒ B. Diameter of the storage tank
 - ☒ C. Gradient of the pipeline
 - ☒ D. Type of pump used

Question ID : 441009102522

Option 1 ID : 441009408117

Option 2 ID : 441009408115

Option 3 ID : 441009408118

Option 4 ID : 441009408116

Status : Answered

Chosen Option : C

Q.3 How does an increase in the slenderness ratio influence the stability and load-carrying capacity of a column?
9

- Ans**
- ☒ A. Decreases load-carrying capacity due to instability
 - ☒ B. Increases load-carrying capacity
 - ☒ C. Has no significant effect
 - ☒ D. Reduces buckling risk

Question ID : 44100925312

Option 1 ID : 441009100953

Option 2 ID : 441009100951

Option 3 ID : 441009100954

Option 4 ID : 441009100952

Status : Answered

Chosen Option : A

Q.4 A statement is given followed by four conclusions. Select the conclusions that are correct based on the given statement.

Statement:

The volume of sludge produced in a wastewater treatment plant depends on the influent wastewater characteristics, treatment process efficiency, and sludge stabilisation methods.

Conclusion:

- I. Higher organic content in wastewater leads to increased sludge production.
- II. Primary treatment alone generates more sludge volume compared to secondary treatment.
- III. Sludge digestion reduces the overall volume of sludge before disposal.
- IV. The volume of sludge remains constant regardless of the treatment process used.

Ans ☒ A. Only I, II, and IV are correct

☒ B. Only II and IV are correct

☒ C. Only I and III are correct

☒ D. Only I, II, and III are correct

Question ID : 44100979786

Option 1 ID : 441009316936

Option 2 ID : 441009316935

Option 3 ID : 441009316934

Option 4 ID : 441009316937

Status : Answered

Chosen Option : D

Q.4 Which of the following best characterises heavy construction projects?

1

Ans ☒ A. Minimal capital investment and resource requirements

☒ B. Rapid project completion within a short duration

☒ C. Exclusive focus on temporary structures with limited lifespan

☒ D. Complex structural designs and utilisation of large-scale equipment

Question ID : 44100972953

Option 1 ID : 441009290136

Option 2 ID : 441009290139

Option 3 ID : 441009290138

Option 4 ID : 441009290137

Status : Answered

Chosen Option : D

Q.4 _____ is an oil used to thin the paint and increase the spread.

Ans ☒ A. Pigment

☒ B. Thinner

☒ C. Vehicle

☒ D. Base

Question ID : 44100954442

Option 1 ID : 441009216749

Option 2 ID : 441009216746

Option 3 ID : 441009216748

Option 4 ID : 441009216747

Status : Answered

Chosen Option : B

Q.4 The coefficient of contraction (C_c) is used to determine the vena-contracta area. If the area of the orifice is a_0 , which of the following correctly expresses the vena-contracta area (a_2) in an orifice meter?

Ans ☒ A. $a_2 = \frac{C_c}{a_0}$

☒ B. $a_2 = \frac{a_0}{C_c}$

☒ C. $a_2 = C_c^2 \times a_0$

☒ D. $a_2 = a_0 \times C_c$

Question ID : 44100952972

Option 1 ID : 441009210970

Option 2 ID : 441009210968

Option 3 ID : 441009210971

Option 4 ID : 441009210969

Status : Answered

Chosen Option : D

Q.4 The governing relation between inflow, outflow, and change in storage is ____.

Ans ☒ A. $\frac{I}{O} = \Delta S$

☒ B. $I = O$

☒ C. $I + O = \Delta S$

☒ D. $I - O = \Delta S$

Question ID : 44100962531

Option 1 ID : 441009249191

Option 2 ID : 441009249190

Option 3 ID : 441009249189

Option 4 ID : 441009249188

Status : Answered

Chosen Option : D

Q.4 Select the correct option based on the given statement and reason.

Statement: The horizontal equivalent is small for steep slopes and large for gentle slopes.

Reason: Contour lines are closely spaced in steep terrains and widely spaced in flat terrains.

Ans ☒ A. Statement is true, but Reason is false.

☒ B. Both the Statement and Reason are true, and the Reason correctly explains the Statement.

☒ C. Both the Statement and Reason are true, but the Reason does not explain the Statement.

☒ D. Statement is false, but Reason is true.

Question ID : 44100940395

Option 1 ID : 441009161094

Option 2 ID : 441009161092

Option 3 ID : 441009161093

Option 4 ID : 441009161095

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.4 A railway line uses flat-footed rails of weight 52 kg/m. If the total length of the track is 10 km, what is the total weight of rails required?

Ans ☒ A. 20,80,000 kg

☒ B. 2,60,000 kg

☒ C. 10,40,000 kg

☒ D. 5,20,000 kg

Question ID : 44100968762

Option 1 ID : 441009273682

Option 2 ID : 441009273679

Option 3 ID : 441009273681

Option 4 ID : 441009273680

Status : Answered

Chosen Option : C

Q.4 Which of the following heavy metals is most commonly associated with groundwater contamination and can cause serious health issues such as neurological damage?

Ans ☒ A. Manganese (Mn)

☒ B. Iron (Fe)

☒ C. Lead (Pb)

☒ D. Calcium (Ca)

Question ID : 441009102293

Option 1 ID : 441009407192

Option 2 ID : 441009407191

Option 3 ID : 441009407193

Option 4 ID : 441009407194

Status : Answered

Chosen Option : C

Q.4 Which of the following statements is true regarding dog-legged staircase reinforcement?

Ans ☒ A. No reinforcement is required in stair slabs

☒ B. Reinforcement should terminate at the landing slab

☒ C. Minimum reinforcement is 0.1% of the cross-sectional area

☒ D. Reinforcement should extend fully into the supporting beams

Question ID : 44100925525

Option 1 ID : 441009101805

Option 2 ID : 441009101804

Option 3 ID : 441009101806

Option 4 ID : 441009101803

Status : Not Answered

Chosen Option : --

Q.4 Which of the following CANNOT be determined by consolidation test on soil?

Ans ☒ A. Cohesion of soil

☒ B. Coefficient of volume compressibility of soil

☒ C. Coefficient of permeability of soil

☒ D. Compression index of soil

Question ID : 44100940688

Option 1 ID : 441009162237

Option 2 ID : 441009162236

Option 3 ID : 441009162235

Option 4 ID : 441009162238

Status : Answered

Chosen Option : A

Q.50 A thin-walled cylindrical pressure vessel has an internal diameter of 600 mm and a wall thickness of 10 mm. If the internal pressure is 5 MPa, what is the hoop stress in the cylinder wall?

- Ans
- ☒ A. 100 MPa
 - ☒ B. 200 MPa
 - ☒ C. 120 MPa
 - ☒ D. 150 MPa

Question ID : 44100946675

Option 1 ID : 441009185843

Option 2 ID : 441009185846

Option 3 ID : 441009185844

Option 4 ID : 441009185845

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.51 A simply supported beam of span $L = 6$ m carries a point load $P =$ beam is $EI = 8000 \text{ kN} \cdot \text{m}^2$. What is the maximum deflection in the b

- Ans
- ☒ A. $\frac{88 \cdot 10^5}{48EI}$
 - ☒ B. $\frac{88 \cdot 10^5}{3EI}$
 - ☒ C. $\frac{22 \cdot 10^5}{48EI}$
 - ☒ D. $\frac{22 \cdot 10^4}{48EI}$

Question ID : 44100946996

Option 1 ID : 441009187115

Option 2 ID : 441009187116

Option 3 ID : 441009187117

Option 4 ID : 441009187118

Status : Answered

Chosen Option : B

Q.5 In area velocity flow, measuring the velocity of flow is through the _____.
2

Ans ☒ A. depth of the flow

☒ B. water surface

☒ C. cross-sectional area

☒ D. channel bed

Question ID : 44100966343

Option 1 ID : 441009264318

Option 2 ID : 441009264321

Option 3 ID : 441009264319

Option 4 ID : 441009264320

Status : Answered

Chosen Option : C

Q.5 Which of the following cracks is commonly observed due to reinforcement corrosion in beams?
3

Ans ☒ A. Transverse cracks

☒ B. Shear cracks

☒ C. Plastic settlement cracks

☒ D. Longitudinal cracks

Question ID : 44100912766

Option 1 ID : 44100950854

Option 2 ID : 44100950855

Option 3 ID : 44100950853

Option 4 ID : 44100950852

Status : Not Answered

Chosen Option : --

Q.5 Which of the following options is correct with respect to the statements regarding the embankment and subgrade in highway construction?
4

Statement A: The soil used for embankment should have high plasticity to ensure better compaction.

Statement B: The strength of a subgrade is commonly evaluated using the California Bearing Ratio (CBR) test.

Ans ☒ A. Both statements are incorrect.

☒ B. Statement B is correct, but Statement A is incorrect.

☒ C. Statement A is correct, but Statement B is incorrect.

☒ D. Both the statements are correct.

Question ID : 44100926538

Option 1 ID : 441009105776

Option 2 ID : 441009105774

Option 3 ID : 441009105773

Option 4 ID : 441009105775

Status : Not Answered

Chosen Option : --

Q.5 Which of the following is NOT true of asbestos fibre?

5

Ans ☒ A. It is a natural fibre.

☒ B. It is a long length fibre.

☒ C. It is a mineral fibre.

☒ D. It is a carbon fibre.

Question ID : 44100954587

Option 1 ID : 441009217326

Option 2 ID : 441009217328

Option 3 ID : 441009217327

Option 4 ID : 441009217329

Status : Answered

Chosen Option : C

Q.5 The effectiveness of the coagulation process in water treatment is determined by:

6

Ans ☒ A. temperature of the surrounding environment

☒ B. depth of the sedimentation tank

☒ C. material of the coagulation tank

☒ D. type and dosage of coagulant used

Question ID : 441009102502

Option 1 ID : 441009408039

Option 2 ID : 441009408040

Option 3 ID : 441009408042

Option 4 ID : 441009408041

Status : Answered

Chosen Option : B

Q.5 Which type of pedestrian crossing is considered the safest at uncontrolled intersections?

7

Ans ☒ A. Unmarked mid-block crossing

☒ B. Zebra crossing with flashing beacons

☒ C. Overhead pedestrian bridge

☒ D. Signalised crossing

Question ID : 44100933285

Option 1 ID : 441009132323

Option 2 ID : 441009132320

Option 3 ID : 441009132322

Option 4 ID : 441009132321

Status : Answered

Chosen Option : C

Q.5 Which of the following statements is true for a bolted connection subjected to combined shear and tension?

- Ans ☐ A. There is no effect on the bolt's capacity when shear and tension are combined.
- ☐ B. The bolt strength is increased due to combined forces.
- ☐ C. The tension capacity of the bolt is increased due to shear forces.
- ☒ D. The shear capacity of the bolt is reduced due to the axial tension.

Question ID : 44100953048

Option 1 ID : 441009211271

Option 2 ID : 441009211268

Option 3 ID : 441009211270

Option 4 ID : 441009211269

Status : Answered

Chosen Option : D

Q.5 In levelling, what does the backsight (BS) represent?

- Ans ☐ A. The difference between fore sight and intermediate sight
- ☐ B. The distance between two successive stations
- ☒ C. The first staff reading taken at a new instrument position
- ☐ D. The last staff reading taken at a station before moving the instrument

Question ID : 44100940394

Option 1 ID : 441009161090

Option 2 ID : 441009161091

Option 3 ID : 441009161089

Option 4 ID : 441009161088

Status : Answered

Chosen Option : C

Q.6 When the vanes on the hub are adjustable, the turbine is known as a/the _____.

- Ans ☐ A. Francis turbine
- ☐ B. Pelton turbine
- ☐ C. Propeller turbine
- ☒ D. Kaplan turbine

Question ID : 44100956718

Option 1 ID : 441009225728

Option 2 ID : 441009225727

Option 3 ID : 441009225729

Option 4 ID : 441009225726

Status : Not Answered

Chosen Option : --

Q.6 A strip footing is 2 m wide and 1 m deep. For the foundation soil, $c = 350$ kPa and $\phi = 20^\circ$. ($N_c = 17.7$, $N_q = 7.4$ and $N_\gamma = 5$ and $N'_c = 12$, $N'_q = 4$ and $N'_\gamma = 1.4$). Find the ultimate bearing capacity. Take unit weight of soil as 18 kN/m³.

Ans ☒ A. 1897.20 kN/m²

☒ B. 2400 kN/m²

☒ C. 2897.20 kN/m²

☒ D. 1200 kN/m²

Question ID : 44100950728

Option 1 ID : 441009202121

Option 2 ID : 441009202119

Option 3 ID : 441009202118

Option 4 ID : 441009202120

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.6 Identify correct statements with respect to types of piles.

2

1. Under-reamed piles are driven piles.
2. In bored and cast in situ piles, the concrete at pile bottom cannot be easily inspected.
3. All laterally loaded piles are batter piles.
4. The loose sand gets densified during pile driving.

Ans ☒ A. 2 and 3

☒ B. 1 and 4

☒ C. 2 and 4

☒ D. 1 and 3

Question ID : 44100948680

Option 1 ID : 441009194033

Option 2 ID : 441009194034

Option 3 ID : 441009194032

Option 4 ID : 441009194035

Status : Not Answered

Chosen Option : --

Q.6 Where should an exit taxiway be ideally located on a runway?

3

Ans ☒ A. At the beginning of the runway

☒ B. At the exact centre of the runway length

☒ C. At a location that minimises aircraft stopping distance

☒ D. At the farthest possible point from the touchdown zone

Question ID : 44100926451

Option 1 ID : 441009105425

Option 2 ID : 441009105426

Option 3 ID : 441009105427

Option 4 ID : 441009105428

Status : Answered

Chosen Option : D

Q.6 Which of the following best describes the Response Spectrum Method?
4

- Ans ☐ A. It calculates dynamic response in the time domain.
- ☒ B. It is used for estimating peak response under seismic excitation.
- ☐ C. It estimates peak responses for harmonic excitation.
- ☐ D. It determines static load equivalent for wind forces.

Question ID : 44100912754

Option 1 ID : 44100950805

Option 2 ID : 44100950806

Option 3 ID : 44100950804

Option 4 ID : 44100950807

Status : Not Answered

Chosen Option : --

Q.6 What is the value of the momentum correction factor (β) for laminar flow through a circular pipe?
5

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

Question ID : 44100959737

Option 1 ID : 441009237883

Option 2 ID : 441009237882

Option 3 ID : 441009237880

Option 4 ID : 441009237881

Status : Answered

Chosen Option : D

Q.6 Which of the following statements is INCORRECT about aggregates used in concrete?
6

- Ans ☐ A. Crushed stone is a coarse aggregate.
- ☐ B. River sand is a natural fine aggregate.
- ☐ C. Should be composed of an inert mineral matter.
- ☒ D. Coarse aggregates are less than 4.75 mm in size.

Question ID : 44100954613

Option 1 ID : 441009217433

Option 2 ID : 441009217434

Option 3 ID : 441009217435

Option 4 ID : 441009217432

Status : Answered

Chosen Option : D

Q.6 According to IS 456:2000, the maximum permissible crack width for reinforced concrete slabs under service loads in normal exposure condition is ____.

- Ans ☒ A. 0.2 mm
- ☒ B. 0.5 mm
- ☒ C. 0.3 mm
- ☒ D. 0.4 mm

Question ID : 44100925539

Option 1 ID : 441009101859

Option 2 ID : 441009101862

Option 3 ID : 441009101860

Option 4 ID : 441009101861

Status : Answered

Chosen Option : C

Q.6 A thin spherical pressure vessel is subjected to an internal pressure, resulting in a hoop stress of 400 MPa. If the material has a Young's modulus of 200 GPa and Poisson's ratio of 0.3, determine the longitudinal strain in the sphere.

- Ans ☒ A. 0.7×10^{-3}
- ☒ B. 2×10^{-3}
- ☒ C. 2.4×10^{-3}
- ☒ D. 1.4×10^{-3}

Question ID : 44100946977

Option 1 ID : 441009187044

Option 2 ID : 441009187045

Option 3 ID : 441009187046

Option 4 ID : 441009187043

Status : Not Answered

Chosen Option : --

Q.6 A cyclone separator processes 5,000 m³/hr of air containing dust particles. If the collection efficiency is 85%, how much air (in m³/hr) will still contain dust after passing through the cyclone?

- Ans ☒ A. 250
- ☒ B. 750
- ☒ C. 500
- ☒ D. 1,000

Question ID : 44100981121

Option 1 ID : 441009322122

Option 2 ID : 441009322124

Option 3 ID : 441009322123

Option 4 ID : 441009322125

Status : Answered

Chosen Option : B

Q.7 In allowable stress design, the allowable tensile stress of a member is calculated by:

- Ans
- ☒ A. using the material's modulus of elasticity
 - ☒ B. using the material's shear strength
 - ☒ C. multiplying the material's ultimate tensile strength by a factor of safety
 - ☒ D. dividing the yield strength by a factor of safety

Question ID : 44100953787
 Option 1 ID : 441009214132
 Option 2 ID : 441009214133
 Option 3 ID : 441009214131
 Option 4 ID : 441009214130
 Status : Not Answered
 Chosen Option : --

Q.7 Which of the following is the most effective method for the removal of iron and manganese from drinking water?

- Ans
- ☒ A. Aeration followed by filtration
 - ☒ B. Coagulation and flocculation
 - ☒ C. Adding chlorine directly without pretreatment
 - ☒ D. Boiling the water

Question ID : 441009102470
 Option 1 ID : 441009407897
 Option 2 ID : 441009407896
 Option 3 ID : 441009407898
 Option 4 ID : 441009407895
 Status : Answered
 Chosen Option : A

Q.7 Diagonal stiffeners are often used in plate girders subjected to _____.

- Ans
- ☒ A. high shear forces
 - ☒ B. pure bending
 - ☒ C. pure axial loads
 - ☒ D. torsional loads only

Question ID : 44100953772
 Option 1 ID : 441009214063
 Option 2 ID : 441009214062
 Option 3 ID : 441009214064
 Option 4 ID : 441009214065
 Status : Answered
 Chosen Option : D

Q.7 Which factor is most crucial when selecting a disinfectant for drinking water treatment?
3

- Ans ☐ A. Increase in dissolved oxygen levels
- ☒ B. Effectiveness in inactivating pathogens
- ☐ C. Enhancement of water hardness
- ☐ D. Ability to remove suspended solids

Question ID : 441009102482

Option 1 ID : 441009407954

Option 2 ID : 441009407951

Option 3 ID : 441009407953

Option 4 ID : 441009407952

Status : Answered

Chosen Option : B

Q.7 What is the function of stiffeners in plate girders?
4

- Ans ☒ A. Reinforce the web and prevent buckling under high shear forces.
- ☐ B. Reduce the weight of the girder.
- ☐ C. Improve the aesthetic appearance of the girder.
- ☐ D. Increase the bending strength of the girder.

Question ID : 44100953766

Option 1 ID : 441009214039

Option 2 ID : 441009214040

Option 3 ID : 441009214041

Option 4 ID : 441009214038

Status : Answered

Chosen Option : A

Q.7 Identify the correct statements with respect to factors affecting compressibility.
5

1. The settlement vs. time curve of sandy soils have flat slope as compared to that of clayey soils.
2. The settlement vs. time curve of over consolidated soils is flat as compared to normally consolidated soils.
3. The parameter called coefficient of compressibility relates change in void ratio to change in total stress.
4. At a place of excessive soil erosion, the soil layers can be pre-consolidated for some small values of stresses.

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

Question ID : 44100941066

Option 1 ID : 441009163699

Option 2 ID : 441009163700

Option 3 ID : 441009163697

Option 4 ID : 441009163698

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.7 On a sandy soil, the permissible settlement for the foundation of 1.5 m width is 20 mm.
6 In a plate load test with 60 cm square plate, the corresponding load for 15 mm settlement is 80 t/m² and for 12.8 mm settlement is 50 t/m². The load intensity for the foundation will be:

- Ans
- ☒ A. 50 t/m²
 - ☐ B. 40 t/m²
 - ☐ C. 25 t/m²
 - ☐ D. 80 t/m²

Question ID : 44100951034

Option 1 ID : 441009203294

Option 2 ID : 441009203297

Option 3 ID : 441009203295

Option 4 ID : 441009203296

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.7 In the design of a compression member, the effective length of a column is dependent
7 on the:

- Ans
- ☐ A. colour of the column
 - ☐ B. the weight of the surrounding soil
 - ☒ C. the end conditions of the column
 - ☐ D. material of the column only

Question ID : 44100953092

Option 1 ID : 441009211445

Option 2 ID : 441009211447

Option 3 ID : 441009211446

Option 4 ID : 441009211444

Status : Answered

Chosen Option : C

Q.7 Identify the most suitable velocity range for the flow in a sewer to prevent both
8 sediment deposition and excessive wear.

- Ans
- ☐ A. Above 5.0 m/s
 - ☐ B. 0.2 – 0.5 m/s
 - ☒ C. 0.6 – 3.0 m/s
 - ☐ D. 3.5 – 5.0 m/s

Question ID : 44100979808

Option 1 ID : 441009317025

Option 2 ID : 441009317022

Option 3 ID : 441009317023

Option 4 ID : 441009317024

Status : Answered

Chosen Option : B

Q.7 Match the following compaction equipment types, with their suitability for soil type.

Type of equipment Suitability for soil type

A. Smooth wheeled rollers 1. Clayey soil

B. Sheepfoot rollers 2. Low plastic silt

C. Pneumatic tyre rollers 3. Crushed rocks, gravels and sands

Ans ☒ A. A-2, B-3, C-1

☒ B. A-1, B-2, C-3

☒ C. A-2, B-1, C-3

☒ D. A-3, B-1, C-2

Question ID : 44100940593

Option 1 ID : 441009161865

Option 2 ID : 441009161864

Option 3 ID : 441009161866

Option 4 ID : 441009161863

Status : Answered

Chosen Option : D

Q.8 Which of the following factors is NOT a primary determinant of runway orientation?

Ans ☒ A. Surrounding terrain and obstacles

☒ B. Airport elevation

☒ C. Air traffic patterns

☒ D. Location of airport restaurants

Question ID : 44100926445

Option 1 ID : 441009105401

Option 2 ID : 441009105404

Option 3 ID : 441009105403

Option 4 ID : 441009105402

Status : Answered

Chosen Option : D

Q.8 A cylindrical steel rod of length 1 m and diameter 50 mm is subjected to a tensile load of 100 kN. If the Poisson's ratio of the material is 0.3, which of the following statements is correct?

Ans ☒ A. The lateral strain is greater than the longitudinal strain.

☒ B. The material expands in both longitudinal and lateral directions.

☒ C. Poisson's ratio has no relation to axial deformation.

☒ D. The Poisson's ratio is the ratio of lateral strain to longitudinal strain.

Question ID : 44100946945

Option 1 ID : 441009186915

Option 2 ID : 441009186916

Option 3 ID : 441009186918

Option 4 ID : 441009186917

Status : Answered

Chosen Option : D

Q.8 What is the primary purpose of providing confinement reinforcement in beam-column joints for ductile detailing?

- Ans ☒ A. To reduce the size of the joint
- ☒ B. To prevent spalling of concrete
- ☒ C. To reduce the overall cost of construction
- ☒ D. To ensure proper load transfer and improve joint ductility

Question ID : 44100912761

Option 1 ID : 44100950836

Option 2 ID : 44100950837

Option 3 ID : 44100950839

Option 4 ID : 44100950838

Status : Not Answered

Chosen Option : --

Q.8 In the context of fluid flow, which of the following conditions must be satisfied for a flow to be considered strictly incompressible?

- Ans ☒ A. The density remains constant only if the fluid is a liquid, regardless of flow conditions
- ☒ B. The density of the fluid remains constant at every point in space and time
- ☒ C. The density changes due to variations in pressure and temperature at different points
- ☒ D. The density of the fluid does not change with respect to space but varies with time

Question ID : 44100956827

Option 1 ID : 441009226140

Option 2 ID : 441009226138

Option 3 ID : 441009226139

Option 4 ID : 441009226137

Status : Answered

Chosen Option : B

Q.8 The synthetic unit hydrograph is derived from ____.

- Ans ☒ A. basin characteristics
- ☒ B. empirical equations
- ☒ C. the unit period
- ☒ D. a runoff hydrograph

Question ID : 44100962562

Option 1 ID : 441009249308

Option 2 ID : 441009249309

Option 3 ID : 441009249311

Option 4 ID : 441009249310

Status : Answered

Chosen Option : D

Q.8 Select the option that is correct regarding the following two statements labelled
5 Assertion (A) and Reason (R).

Assertion (A): Well-graded aggregates provide better interlocking and strength in concrete.

Reason (R): Well-graded aggregates contain particles of nearly the same size, leading to uniform voids.

- Ans ☒ A. Both A and R are true, but R is not the correct explanation of A.
- ☒ B. A is true, but R is false.
- ☒ C. A is false, but R is true.
- ☒ D. Both A and R are true, and R is the correct explanation of A.

Question ID : 44100931353

Option 1 ID : 441009124909

Option 2 ID : 441009124910

Option 3 ID : 441009124911

Option 4 ID : 441009124908

Status : Answered

Chosen Option : B

Q.8 A waste-to-energy plant processes 500 metric tonnes (MT) of municipal solid waste per
6 day. If the calorific value of the waste is 10 MJ/kg and the plant operates with an energy recovery efficiency of 30%, how much energy is recovered daily in megawatt-hours (MWh)?

- Ans ☒ A. 416.67
- ☒ B. 455.5
- ☒ C. 350
- ☒ D. 400

Question ID : 44100968122

Option 1 ID : 441009271295

Option 2 ID : 441009271296

Option 3 ID : 441009271293

Option 4 ID : 441009271294

Status : Answered

Chosen Option : C

Q.8 Which of the following is the main advantage of solid waste incineration?
7

- Ans ☒ A. It reduces the volume of waste significantly.
- ☒ B. It completely eliminates waste production.
- ☒ C. It produces no harmful emissions.
- ☒ D. It does not require any energy input.

Question ID : 44100968118

Option 1 ID : 441009271280

Option 2 ID : 441009271277

Option 3 ID : 441009271279

Option 4 ID : 441009271278

Status : Answered

Chosen Option : A

Q.8 Which of the following techniques is predominantly employed to reduce water hardness in drinking water treatment?

Ans ☒ A. Filtration through sand beds

☒ B. Coagulation with alum

☒ C. Lime-soda process

☒ D. Chlorine disinfection

Question ID : 441009102478

Option 1 ID : 441009407936

Option 2 ID : 441009407938

Option 3 ID : 441009407935

Option 4 ID : 441009407937

Status : Answered

Chosen Option : C

Q.8 As per IS 456:2000, the maximum horizontal spacing between parallel main reinforcement bars in a reinforced concrete slab shall NOT exceed:

Ans ☒ A. 3 times the effective depth or 300 mm

☒ B. 4 times the effective depth or 400 mm

☒ C. effective depth or 400 mm

☒ D. 2 times the effective depth or 200 mm

Question ID : 44100925531

Option 1 ID : 441009101827

Option 2 ID : 441009101828

Option 3 ID : 441009101830

Option 4 ID : 441009101829

Status : Answered

Chosen Option : A

Q.9 Identify the most commonly used shape for large sewer pipes carrying combined sewage and stormwater.

Ans ☒ A. Egg-shaped

☒ B. Trapezoidal

☒ C. Circular

☒ D. Rectangular

Question ID : 44100979814

Option 1 ID : 441009317048

Option 2 ID : 441009317049

Option 3 ID : 441009317046

Option 4 ID : 441009317047

Status : Answered

Chosen Option : A

Q.9 1 A solid circular shaft of diameter 'd' and length 'L' is fixed at one end and subjected to a gradually applied torque 'T' at the free end. The strain energy stored in the shaft due to torsion is given by: (Where G = Modulus of elasticity, J = Polar moment of inertia)

Ans ☒ A. $\frac{T^2 L}{2GJ}$

☒ B. $\frac{T^2 L}{6GJ}$

☒ C. $\frac{T^2 L}{3GJ}$

☒ D. $\frac{T^2 L}{4GJ}$

Question ID : 44100946637

Option 1 ID : 441009185696

Option 2 ID : 441009185698

Option 3 ID : 441009185697

Option 4 ID : 441009185695

Status : Answered

Chosen Option : A

Q.9 2 In the load balancing concept of prestressed concrete, which tendon profile is most effective in counteracting external loads?

Ans ☒ A. Linear and uniform along the span

☒ B. Parabolic, with maximum eccentricity at mid-span

☒ C. Trapezoidal, with peak eccentricity near supports

☒ D. Harped profile, with multiple points of eccentricity

Question ID : 44100925610

Option 1 ID : 441009102083

Option 2 ID : 441009102084

Option 3 ID : 441009102085

Option 4 ID : 441009102086

Status : Answered

Chosen Option : B

Q.9 Which of the following factors can reduce the efficiency of an electrostatic precipitator?
3

- Ans ☐ A. Increasing the applied voltage to the collection plates
- ☐ B. Ensuring proper cleaning of collection plates
- ☐ C. Increasing the residence time of particles in the ESP
- ☒ D. Using a gas stream with high moisture content

Question ID : 44100981129

Option 1 ID : 441009322152

Option 2 ID : 441009322153

Option 3 ID : 441009322151

Option 4 ID : 441009322150

Status : Answered

Chosen Option : D

Q.9 Which of the following options is correct with respect to the statements regarding parking facilities?
4

Statement A: Multi-level parking helps in reducing land usage in high-density urban areas.

Statement B: On-street parking is more efficient than off-street parking in terms of traffic flow management.

- Ans ☐ A. Both the statements are correct.
- ☐ B. Statement B is correct, but Statement A is incorrect.
- ☐ C. Both the statements are incorrect.
- ☒ D. Statement A is correct, but Statement B is incorrect

Question ID : 44100931484

Option 1 ID : 441009125426

Option 2 ID : 441009125425

Option 3 ID : 441009125427

Option 4 ID : 441009125424

Status : Not Answered

Chosen Option : --

Q.9 The probability of each event is calculated by _____.
5

- Ans ☒ A. $P = m/(N + 1)$
- ☐ B. $P = (m + 1)/N$
- ☐ C. $P = m/(N - 1)$
- ☐ D. $P = m/N$

Question ID : 44100966289

Option 1 ID : 441009264102

Option 2 ID : 441009264105

Option 3 ID : 441009264103

Option 4 ID : 441009264104

Status : Answered

Chosen Option : A

Q.9 Which of the following end conditions provides the highest critical buckling load for a given column?

- Ans ☒ A. Both ends pinned
- ☒ B. Both ends fixed
- ☒ C. One end fixed, other end pinned
- ☒ D. One end fixed, other end free

Question ID : 44100946366

Option 1 ID : 441009184614

Option 2 ID : 441009184616

Option 3 ID : 441009184617

Option 4 ID : 441009184615

Status : Answered

Chosen Option : B

Q.9 According to Pascal's Law, when pressure is applied to a confined fluid, how does it behave within the fluid?

- Ans ☒ A. It decreases in all directions within the fluid.
- ☒ B. It transmits equally in all directions without loss.
- ☒ C. It remains constant at the point of application only.
- ☒ D. It increases in one direction while reducing in others.

Question ID : 44100956424

Option 1 ID : 441009224582

Option 2 ID : 441009224583

Option 3 ID : 441009224581

Option 4 ID : 441009224584

Status : Answered

Chosen Option : B

Q.9 In case of sands, the initial decrease in dry density of sands is attributed to:

- Ans ☒ A. Lambe's theory
- ☒ B. bulking of sand
- ☒ C. critical void ratio theory
- ☒ D. circular shape of hammer

Question ID : 44100940657

Option 1 ID : 441009162111

Option 2 ID : 441009162112

Option 3 ID : 441009162114

Option 4 ID : 441009162113

Status : Answered

Chosen Option : B

Q.9 Which of the following non-precast slab systems is most efficient for long spans with heavy loads?

- Ans** ☒ A. One-way slab
☒ B. Waffle slab
☒ C. Flat plate
☒ D. Hollow core slab

Question ID : 44100925546

Option 1 ID : 441009101889

Option 2 ID : 441009101888

Option 3 ID : 441009101887

Option 4 ID : 441009101890

Status : Not Answered

Chosen Option : --

Q.1 In a gradually varied flow, which factor primarily determines the classification of surface profiles in an open channel?

- Ans** ☒ A. The turbulence intensity and Reynolds number of flow
☒ B. The flow velocity and energy coefficient of the section
☒ C. The channel roughness and boundary shear stress
☒ D. The relative positions of normal depth and critical depth

Question ID : 44100955767

Option 1 ID : 441009222027

Option 2 ID : 441009222026

Option 3 ID : 441009222025

Option 4 ID : 441009222024

Status : Not Answered

Chosen Option : --

Q.1 One of ways to increase the group efficiency of driven piles in loose sand is:

- Ans** ☒ A. using concrete piles
☒ B. increasing the spacing between the piles
☒ C. decreasing the spacing between the piles
☒ D. mixing clay with sand layer

Question ID : 44100948714

Option 1 ID : 441009194166

Option 2 ID : 441009194164

Option 3 ID : 441009194165

Option 4 ID : 441009194167

Status : Not Answered

Chosen Option : --

Q.1 Which type of stream always carries some flow?
02

- Ans
- ☒ A. Intermittent stream
 - ☒ B. Perennial stream
 - ☒ C. Ephemeral stream
 - ☒ D. Seasonal stream

Question ID : 44100966325

Option 1 ID : 441009264247

Option 2 ID : 441009264246

Option 3 ID : 441009264248

Option 4 ID : 441009264249

Status : Answered

Chosen Option : B

Q.1 Which characteristic of treated sewage makes it beneficial for farm forestry irrigation?
03

- Ans
- ☒ A. Presence of organic nutrients
 - ☒ B. High levels of heavy metals
 - ☒ C. Increased salinity concentration
 - ☒ D. Low dissolved oxygen content

Question ID : 44100979695

Option 1 ID : 441009316575

Option 2 ID : 441009316574

Option 3 ID : 441009316576

Option 4 ID : 441009316577

Status : Answered

Chosen Option : A

Q.1 PERT is mainly used for:
04

- Ans
- ☒ A. routine construction projects
 - ☒ B. short-term, repetitive tasks
 - ☒ C. uncertain, research-based projects
 - ☒ D. residential home construction

Question ID : 44100973029

Option 1 ID : 441009290436

Option 2 ID : 441009290438

Option 3 ID : 441009290437

Option 4 ID : 441009290439

Status : Answered

Chosen Option : C

Q.1 05 Which type of float affects only a particular activity and not the overall project schedule?

Ans ☒ A. Free float

☐ B. Negative float

☐ C. Independent float

☐ D. Total float

Question ID : 44100973099

Option 1 ID : 441009290715

Option 2 ID : 441009290718

Option 3 ID : 441009290717

Option 4 ID : 441009290716

Status : Not Answered

Chosen Option : --

Q.1 06 While designing a concrete mix, if the target mean strength of M30 grade concrete is calculated as 38 MPa, what is the assumed standard deviation as per IS 10262:2019 for OPC concrete?

Ans ☐ A. 4.0 MPa

☐ B. 2.0 MPa

☐ C. 8.0 MPa

☒ D. 5.0 MPa

Question ID : 44100973260

Option 1 ID : 441009291351

Option 2 ID : 441009291354

Option 3 ID : 441009291352

Option 4 ID : 441009291353

Status : Answered

Chosen Option : D

Q.1 07 A steel rod of length 2 m and cross-sectional area 500 mm² is fixed at both ends. If the temperature increases by 50°C, and the coefficient of thermal expansion (α) for steel is $12 \times 10^{-6}/^\circ\text{C}$, while the modulus of elasticity (E) is 200 GPa, what will be the thermal stress induced in the rod?

Ans ☒ A. 120 MPa

☐ B. 100 MPa

☐ C. 200 MPa

☐ D. 50 MPa

Question ID : 44100946914

Option 1 ID : 441009186791

Option 2 ID : 441009186790

Option 3 ID : 441009186792

Option 4 ID : 441009186789

Status : Not Answered

Chosen Option : --

Q.1 What defines a channel transition in an open channel flow?
08

- Ans
- ☒ A. A uniform flow condition without any variations
 - ☒ B. A sudden increase in water velocity without geometric change
 - ☒ C. A change in the channel width or bottom slope
 - ☒ D. A constant cross-section along the channel length

Question ID : 44100955786

Option 1 ID : 441009222102

Option 2 ID : 441009222103

Option 3 ID : 441009222100

Option 4 ID : 441009222101

Status : Not Answered

Chosen Option : --

Q.1 In CGS units, kinematic viscosity is expressed in stokes. Which of the following
09 correctly represents the value of 1 stoke in SI units?

- Ans
- ☒ A. $10^{-3} \text{ m}^2/\text{s}$
 - ☒ B. $10^{-2} \text{ m}^2/\text{s}$
 - ☒ C. $10^{-4} \text{ m}^2/\text{s}$
 - ☒ D. $10^{-5} \text{ m}^2/\text{s}$

Question ID : 44100959710

Option 1 ID : 441009237777

Option 2 ID : 441009237776

Option 3 ID : 441009237778

Option 4 ID : 441009237779

Status : Answered

Chosen Option : C

Q.1 What is the primary purpose of compass surveying in engineering practice?
10

- Ans
- ☒ A. To measure the length of survey lines
 - ☒ B. To determine the angles or directions of survey lines
 - ☒ C. To calculate the area of a plot
 - ☒ D. To measure the elevation of survey points

Question ID : 44100951388

Option 1 ID : 441009204691

Option 2 ID : 441009204690

Option 3 ID : 441009270848

Option 4 ID : 441009204689

Status : Answered

Chosen Option : B

Q.1 Which of the following are correct statements with respect to methods of boring?

11

- A: In shell and auger boring, the shell is used when augering becomes difficult.
B: In shell and auger boring, soil is given blows by shell and auger simultaneously.
C: Rotary boring can be used only for shallow depths of soft soils.
D: Rotary boring is done when soil is highly resistant to auger boring and wash boring.

Ans ☒ A. B and C

☒ B. A and D

☒ C. A and C

☒ D. B and D

Question ID : 44100951273

Option 1 ID : 441009204240

Option 2 ID : 441009204238

Option 3 ID : 441009204239

Option 4 ID : 441009204241

Status : Not Answered

Chosen Option : --

Q.1 A higher pitch in a roof truss typically results in a _____.

12

Ans ☒ A. flatter roof

☒ B. steeper roof

☒ C. shorter span

☒ D. lighter truss

Question ID : 44100953779

Option 1 ID : 441009214098

Option 2 ID : 441009214099

Option 3 ID : 441009214101

Option 4 ID : 441009214100

Status : Not Answered

Chosen Option : --

Q.1 Which non-destructive technique is commonly used to assess settlement in buildings?

13

Ans ☒ A. Ultrasonic pulse velocity test

☒ B. Electrical resistivity test

☒ C. Plate load test

☒ D. Ground-penetrating radar

Question ID : 44100912767

Option 1 ID : 44100950856

Option 2 ID : 44100950859

Option 3 ID : 44100950857

Option 4 ID : 44100950858

Status : Answered

Chosen Option : A

Q.1 A vehicle is moving at 90 km/hr on a highway with a friction coefficient of 0.36. If the reaction time of the driver is 2.5 seconds, what is the minimum stopping sight distance (SSD)? Take ($g = 9.81 \text{ m/s}^2$)

Ans ☒ A. 150 m

☒ B. 130 m

☒ C. 151 m

☒ D. 148 m

Question ID : 44100968840

Option 1 ID : 441009274002

Option 2 ID : 441009273999

Option 3 ID : 441009274000

Option 4 ID : 441009274001

Status : Answered

Chosen Option : A

Q.1 A factory discharges 500 m³/day of treated wastewater into a river. The oil and grease concentration in the treated wastewater is 15 mg/L, whereas the permissible limit is 10 mg/L. Calculate the total excess oil and grease discharged into the river per day.

Ans ☒ A. 1.5 kg/day

☒ B. 5.0 kg/day

☒ C. 3.0 kg/day

☒ D. 2.5 kg/day

Question ID : 44100979663

Option 1 ID : 441009316451

Option 2 ID : 441009316452

Option 3 ID : 441009316453

Option 4 ID : 441009316450

Status : Answered

Chosen Option : D

Q.1 As per Indian soil classification system, the coarse grained soil classification will have dual symbols, when the:

Ans ☒ A. liquid limit is more than 50%

☒ B. percentage of fines is more than 12%

☒ C. percentage of fines is in between 5% and 12%

☒ D. liquid limit is more than 30%

Question ID : 44100940491

Option 1 ID : 441009161474

Option 2 ID : 441009161472

Option 3 ID : 441009161473

Option 4 ID : 441009161475

Status : Answered

Chosen Option : C

Q.1 Darcy's law is expressed as _____.

17

Ans ☒ A. $V = ki$

☒ B. $V = \frac{k}{i}$

☒ C. $V = i$

☒ D. $V = k$

Question ID : 44100966368

Option 1 ID : 441009264418

Option 2 ID : 441009264419

Option 3 ID : 441009264421

Option 4 ID : 441009264420

Status : Answered

Chosen Option : A

Q.1 In a rotary intersection, what helps to reduce vehicle speed upon entry?

18

Ans ☒ A. Sharp curves at the entry points

☒ B. Wide entry lanes

☒ C. Signalised entry points

☒ D. Direct merging into traffic

Question ID : 44100931497

Option 1 ID : 441009125479

Option 2 ID : 441009125477

Option 3 ID : 441009125476

Option 4 ID : 441009125478

Status : Not Answered

Chosen Option : --

Q.1 In plastic design, what is the general purpose of applying a load factor?

19

Ans ☒ A. To calculate the exact yield point of a material.

☒ B. To determine the most economical structural shape.

☒ C. To minimise the weight of the structure.

☒ D. To account for uncertainties in material properties, construction tolerances, and load variations.

Question ID : 44100953737

Option 1 ID : 441009213930

Option 2 ID : 441009213932

Option 3 ID : 441009213931

Option 4 ID : 441009213933

Status : Not Answered

Chosen Option : --

Q.1 Which of the following is NOT a type of at-grade intersection?

20

Ans ☒ A. Y-intersection

☒ B. Roundabout

☒ C. Cloverleaf

☒ D. T-intersection

Question ID : 44100968791

Option 1 ID : 441009273798

Option 2 ID : 441009273795

Option 3 ID : 441009273797

Option 4 ID : 441009273796

Status : Not Answered

Chosen Option : --

Section : Section II Test on Reasoning

Q.1 Find the number of ordered pairs (a, b) such that a is a prime number, b is a composite number, a and b are coprime and the sum of a and b is 25.

Ans ☒ A. 6

☒ B. 9

☒ C. 5

☒ D. 8

Question ID : 44100931997

Option 1 ID : 441009127465

Option 2 ID : 441009127467

Option 3 ID : 441009127464

Option 4 ID : 441009127466

Status : Not Answered

Chosen Option : --

Q.2 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 conclusion(s) logically follow(s) from the statements.

Statements:

Some cars are trees.
All trees are birds.

Conclusions:

(I): Some cars are birds.
(II): All birds are trees.

- Ans ☒ A. Both conclusions (I) and (II) follow.
- ☒ B. Neither conclusion (I) nor (II) follows.
- ☒ C. Only conclusion (II) follows.
- ☒ D. Only conclusion (I) follows.

Question ID : 44100911538

Option 1 ID : 44100945970

Option 2 ID : 44100945969

Option 3 ID : 44100945968

Option 4 ID : 44100945967

Status : Answered

Chosen Option : D

Q.3 A solid metal sphere of radius 7 cm is melted and recast into smaller s

Find the total surface area of all the smaller spheres combined. (Take



- Ans ☒ A. 4875 cm²
- ☒ B. 5321 cm²
- ☒ C. 4312 cm²
- ☒ D. 3333 cm²

Question ID : 44100934509

Option 1 ID : 441009137452

Option 2 ID : 441009137453

Option 3 ID : 441009137451

Option 4 ID : 441009137450

Status : Answered

Chosen Option : C

Q.4 If 'Q' stands for '+', 'W' stands for 'x', 'E' stands for '+' and 'R' stands for '-', then what will come in place of the question mark (?) in the following equation?

$$11 R 52 Q 4 E 8 W 10 = ?$$

Ans ☒ A. 78

☐ B. 75

☐ C. 77

☐ D. 76

Question ID : 44100911561

Option 1 ID : 44100946062

Option 2 ID : 44100946059

Option 3 ID : 44100946061

Option 4 ID : 44100946060

Status : Answered

Chosen Option : A

Q.5 A conical tent has a radius of 5 m and a slant height of 14 m. Find the cost to make the tent at the rate of ₹50 per m² (excluding the base). (Take π = 22/7)

Ans ☐ A. ₹11,500

☐ B. ₹10,500

☒ C. ₹11,000

☐ D. ₹10,000

Question ID : 44100934442

Option 1 ID : 441009137189

Option 2 ID : 441009137187

Option 3 ID : 441009137188

Option 4 ID : 441009137186

Status : Answered

Chosen Option : C

Q.6 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

: FKP :: VAF : %

Ans ☐ A. # = BGL, % = ZEO

☒ B. # = BGL, % = ZEJ

☐ C. # = CGL, % = ZEJ

☐ D. # = BGL, % = ZFJ

Question ID : 44100911509

Option 1 ID : 44100945852

Option 2 ID : 44100945851

Option 3 ID : 44100945853

Option 4 ID : 44100945854

Status : Answered

Chosen Option : B

Q.7 The roots of the quadratic equation $x^2 - 3x + 1 = 0$ are α and β . Find the value of $\alpha^5 + \beta^5$.

Ans ☒ A. 321

☒ B. 123

☒ C. 100

☒ D. 150

Question ID : 44100934429

Option 1 ID : 441009137137

Option 2 ID : 441009137135

Option 3 ID : 441009137134

Option 4 ID : 441009137136

Status : Answered

Chosen Option : B

Q.8 Mannat starts from Point A and drives 44 km towards north. He then takes a right turn, drives 45 km, turns right and drives 49 km. He then takes a right turn and drives 50 km. He takes a final right turn, drives 5 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again?

(All turns are 90 degree turns only unless specified.)

Ans ☒ A. 5 km to the east

☒ B. 3 km to the west

☒ C. 4 km to the east

☒ D. 2 km to the west

Question ID : 44100911498

Option 1 ID : 44100945811

Option 2 ID : 44100945813

Option 3 ID : 44100945812

Option 4 ID : 44100945814

Status : Answered

Chosen Option : A

Q.9 Distribute ₹1,050 among Ravi, Raj, and Riya in such a way that Ravi's share of Raj and Riya, while Raj receives $\frac{3}{7}$ of the total amount received.

- Ans ☒ A. Ravi receives ₹320, Raj receives ₹295, and Riya receives ₹435
- ☒ B. Ravi receives ₹300, Raj receives ₹315, and Riya receives ₹435
- ☒ C. Ravi receives ₹315, Raj receives ₹300, and Riya receives ₹435
- ☒ D. Ravi receives ₹435, Raj receives ₹315, and Riya receives ₹415

Question ID : 44100933451
Option 1 ID : 441009132989
Option 2 ID : 441009132990
Option 3 ID : 441009132987
Option 4 ID : 441009132988
Status : Answered
Chosen Option : B

Q.1 Siddhartha and Sucheta can complete a task in 45 days and 40 days, respectively. They start working together, but after a certain number of days, Siddhartha stops working. Sucheta continues and completes the remaining work in 23 days. For how many days did Siddhartha work before leaving?

- Ans ☒ A. 10 days
- ☒ B. 12 days
- ☒ C. 11 days
- ☒ D. 9 days

Question ID : 44100933730
Option 1 ID : 441009134088
Option 2 ID : 441009134090
Option 3 ID : 441009134089
Option 4 ID : 441009134087
Status : Answered
Chosen Option : D

Q.1 A chemist has two sugar solutions; Solution X: 30% sugar, and Solution Y: 50% sugar.
1 He wants to create 100 litres of a 40% sugar solution. How many litres of each solution should he mix?

- Ans ☒ A. 60 litres of Solution X (30% sugar) and 40 litres of Solution Y (50% sugar)
- ☒ B. 50 litres of Solution X (30% sugar) and 50 litres of Solution Y (50% sugar)
- ☒ C. 45 litres of Solution X (30% sugar) and 55 litres of Solution Y (50% sugar)
- ☒ D. 40 litres of Solution X (30% sugar) and 60 litres of Solution Y (50% sugar)

Question ID : 44100931842

Option 1 ID : 441009126853

Option 2 ID : 441009126855

Option 3 ID : 441009126854

Option 4 ID : 441009126852

Status : Answered

Chosen Option : B

Q.1 Seven boxes J, K, L, M, W, X, and Y are kept one over the other but not necessarily in the same order.
2 Only K is kept above M. Only two boxes are kept between M and W. Only J is kept below Y. L is not kept immediately above W. How many boxes are kept between X and J?

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

Question ID : 44100912332

Option 1 ID : 44100949119

Option 2 ID : 44100949121

Option 3 ID : 44100949122

Option 4 ID : 44100949120

Status : Answered

Chosen Option : D

Q.1 Refer to the following letter, number and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) R 9 \$ C * ^ 3 ? 4 \ L 6 # E W Q ? & 7 M B 9 (Right)

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

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

Question ID : 44100911470

Option 1 ID : 44100945701

Option 2 ID : 44100945700

Option 3 ID : 44100945702

Option 4 ID : 44100945699

Status : Answered

Chosen Option : B

Q.1 The price of a mobile phone is first increased by 20%, and then it is decreased by 10%.
4 What is the overall percentage change in the price of the mobile phone?

- Ans
- ☐ A. 7.5% decrease
- ☐ B. 8.5% decrease
- ☐ C. 9% increase
- ☒ D. 8% increase

Question ID : 44100933406

Option 1 ID : 441009132808

Option 2 ID : 441009132810

Option 3 ID : 441009132811

Option 4 ID : 441009132809

Status : Answered

Chosen Option : D

Q.1 Which of the following letter-clusters should replace # and % so that the pattern and
5 relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

: XZD :: ZBF : %

- Ans
- ☐ A. # = VWA; % = CEI
- ☐ B. # = UWA; % = CEO
- ☒ C. # = UWA; % = CEI
- ☐ D. # = UXA; % = CEI

Question ID : 44100911515

Option 1 ID : 44100945877

Option 2 ID : 44100945876

Option 3 ID : 44100945875

Option 4 ID : 44100945878

Status : Answered

Chosen Option : C

Q.1 A shopkeeper sells two types of rice, 30 kg at ₹50 per kg, and 20 kg at ₹70 per kg. What
6 is the weighted average price per kg of total rice?

- Ans
- ☐ A. ₹60
- ☐ B. ₹50
- ☐ C. ₹70
- ☒ D. ₹58

Question ID : 44100931787

Option 1 ID : 441009126638

Option 2 ID : 441009126636

Option 3 ID : 441009126639

Option 4 ID : 441009126637

Status : Answered

Chosen Option : D

Q.1 What should come in place of the question mark (?) in the given series?
7

5 20 65 200 605 ?

Ans ☒ A. 1823

☒ B. 8211

☒ C. 1789

☒ D. 1820

Question ID : 44100911590

Option 1 ID : 44100946173

Option 2 ID : 44100946172

Option 3 ID : 44100946174

Option 4 ID : 44100946171

Status : Answered

Chosen Option : D

Q.1 Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?
8

ACF91, EGJ87, IKN83, MOR79, ?

Ans ☒ A. QSV73

☒ B. QIV75

☒ C. QSV75

☒ D. MSV75

Question ID : 44100911531

Option 1 ID : 44100945940

Option 2 ID : 44100945942

Option 3 ID : 44100945939

Option 4 ID : 44100945941

Status : Answered

Chosen Option : C

Q.1 A tap can fill a tank in 12 hours, but a leak in the tank can empty it in 20 hours. If both the tap and the leak are working at the same time, how long will it take to fill the tank completely?
9

Ans ☒ A. 30 hours

☒ B. 24 hours

☒ C. 28 hours

☒ D. 36 hours

Question ID : 44100933736

Option 1 ID : 441009134113

Option 2 ID : 441009134111

Option 3 ID : 441009134112

Option 4 ID : 441009134114

Status : Answered

Chosen Option : A

Q.2 A shopkeeper buys 200 identical items for a total cost of ₹5,00,000. He sells 50% of them at a 15% profit, 30% of them at a 5% loss, and the remaining items at a 10% profit. Calculate the overall profit or loss percentage on the entire transaction.

- Ans**
- ☒ A. 8% loss
 - ☒ B. 6% loss
 - ☒ C. 8% profit
 - ☒ D. 6% profit

Question ID : 44100933432
 Option 1 ID : 441009132914
 Option 2 ID : 441009132912
 Option 3 ID : 441009132915
 Option 4 ID : 441009132913
 Status : Answered
 Chosen Option : C

Q.2 In a cyclic quadrilateral PQRS, the sides PQ, QR, RS, and SP have lengths 7 cm, 9 cm, 10 cm, and 6 cm, respectively. Find the area of the quadrilateral PQRS (rounded up to two decimal places).

- Ans**
- ☒ A. 61.48 cm²
 - ☒ B. 56.79 cm²
 - ☒ C. 48.98 cm²
 - ☒ D. 72.67 cm²

Question ID : 44100934542
 Option 1 ID : 441009137580
 Option 2 ID : 441009137579
 Option 3 ID : 441009137578
 Option 4 ID : 441009137581
 Status : Not Answered
 Chosen Option : --

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

(Left) F 8 W @ 4 V W F # @ C K F U K # B C 7 U ? G (Right)

How many such letters are there that are immediately preceded by a number and also immediately followed by a symbol?

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

Question ID : 44100911474
 Option 1 ID : 44100945717
 Option 2 ID : 44100945718
 Option 3 ID : 44100945715
 Option 4 ID : 44100945716
 Status : Answered
 Chosen Option : D

Q.2 If $(2x + 3y) : (3x + 5y) = 16 : 25$, find the value of $x : y$.

Ans ☒ A. 5 : 2

☐ B. 3 : 5

☐ C. 5 : 4

☐ D. 7 : 9

Question ID : 44100933448

Option 1 ID : 441009132976

Option 2 ID : 441009132977

Option 3 ID : 441009132978

Option 4 ID : 441009132979

Status : Answered

Chosen Option : A

Q.2 Simplify the following.

$$\frac{\sin 3A}{\sin A} - \frac{\cos 3A}{\cos A}$$

Ans ☐ A. 1

☐ B. 0

☐ C. -1

☒ D. 2

Question ID : 44100934622

Option 1 ID : 441009137888

Option 2 ID : 441009137887

Option 3 ID : 441009137886

Option 4 ID : 441009137889

Status : Answered

Chosen Option : D

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

Ans ☐ A. WY-AG

☐ B. KM-OU

☐ C. UW-YE

☒ D. NO-RT

Question ID : 44100912353

Option 1 ID : 44100949206

Option 2 ID : 44100949203

Option 3 ID : 44100949205

Option 4 ID : 44100949204

Status : Answered

Chosen Option : D

Q.2 6 A shopkeeper marks the price of an item at 40% above its cost price. During a sale, he offers a discount of 20% on the marked price. However, due to a special promotion, he gives an additional discount of 10% on the already discounted price. If the cost price of the item is ₹2,000, find the overall profit or loss made by the shopkeeper.

Ans ☒ A. ₹16 profit

☐ B. ₹16 loss

☐ C. ₹50 loss

☐ D. ₹50 profit

Question ID : 44100933436

Option 1 ID : 441009132929

Option 2 ID : 441009132928

Option 3 ID : 441009132930

Option 4 ID : 441009132931

Status : Answered

Chosen Option : A

Q.2 7 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

: LQV :: JOT : %

Ans ☐ A. # = HNR, % = NSX

☐ B. # = HMR, % = NSO

☐ C. # = IMR, % = NSX

☒ D. # = HMR, % = NSX

Question ID : 44100911510

Option 1 ID : 44100945858

Option 2 ID : 44100945856

Option 3 ID : 44100945857

Option 4 ID : 44100945855

Status : Answered

Chosen Option : D

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

(Left) @ 6 S \ & & ? S S U W 8 ^ W ? F 7 8 Y 4 \$ \ (Right)

How many such letters are there each of which is immediately preceded by a symbol and also immediately followed by a number?

Ans ☒ A. Four

☒ B. Two

☒ C. One

☒ D. Three

Question ID : 44100911471

Option 1 ID : 44100945706

Option 2 ID : 44100945704

Option 3 ID : 44100945703

Option 4 ID : 44100945705

Status : Answered

Chosen Option : C

Q.2 A fast moving car completes a 600 km journey 3 hours faster than a slow moving car.
9 The speed of the slow moving car is 10 km/hr less than the speed of the fast moving car. Find the speed of the slow moving car.

Ans ☒ A. 50 km/hr

☒ B. 35 km/hr

☒ C. 40 km/hr

☒ D. 45 km/hr

Question ID : 44100933801

Option 1 ID : 441009134374

Option 2 ID : 441009134371

Option 3 ID : 441009134372

Option 4 ID : 441009134373

Status : Answered

Chosen Option : C

Q.3
0 Seven boxes J, K, L, M, W, X, and Y are kept one over the other but not necessarily in the same order. J is kept second from the bottom. Only three boxes are kept between J and M. L is kept at one of the positions below J. Only Y is kept between M and W. K is kept at one of the positions above M. How many boxes are kept between X and L?

Ans ☒ A. One

☐ B. Two

☐ C. Three

☐ D. Four

Question ID : 44100912331

Option 1 ID : 44100949115

Option 2 ID : 44100949116

Option 3 ID : 44100949117

Option 4 ID : 44100949118

Status : Answered

Chosen Option : A

Q.3
1 The table below shows the monthly salaries (in ₹) of the employees in a company.

| Salary Range (₹) | 5000 - 10000 | 10000 - 15000 | 15000 - 20000 | 20000 - 25000 | 25000 - 30000 | 30000 - 35000 | 35000 - 40000 |
|-------------------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Number of Employees (f) | 5 | 9 | 15 | 25 | 18 | 12 | 6 |

Find the modal salary using the formula method. (Round off to the nearest integer.)

Ans ☐ A. ₹23,000

☐ B. ₹20,500

☒ C. ₹22,941

☐ D. ₹21,650

Question ID : 44100933724

Option 1 ID : 441009134066

Option 2 ID : 441009134063

Option 3 ID : 441009134065

Option 4 ID : 441009134064

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.3 2 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans ☒ A. OQ-SY

☒ B. CE-GM

☒ C. NP-RX

☒ D. LN-PO

Question ID : 44100912350

Option 1 ID : 44100949191

Option 2 ID : 44100949194

Option 3 ID : 44100949193

Option 4 ID : 44100949192

Status : Answered

Chosen Option : D

Q.3 3 Refer to the following letter, number and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) 9 # G = H * S 5 % 3 A T ^ F B M Y S R + 9 & (Right)

How many such numbers are there that are immediately preceded by a symbol and also immediately followed by a letter?

Ans ☒ A. One

☒ B. Four

☒ C. Three

☒ D. Two

Question ID : 44100911476

Option 1 ID : 44100945723

Option 2 ID : 44100945726

Option 3 ID : 44100945725

Option 4 ID : 44100945724

Status : Answered

Chosen Option : A

Q.3 4 The sum of the ages of a father and his son is 60 years. Six years ago, the father's age was five times the son's age. Find the current age of the father.

Ans ☒ A. 46 years

☒ B. 32 years

☒ C. 38 years

☒ D. 42 years

Question ID : 44100934364

Option 1 ID : 441009136875

Option 2 ID : 441009136874

Option 3 ID : 441009136876

Option 4 ID : 441009136877

Status : Answered

Chosen Option : A

Q.3 In a certain code language, 'LATE' is coded as '2743' and 'TILE' is coded as '8473'. What is the code for 'I' in the given code language?

Ans ☒ A. 7

☒ B. 8

☒ C. 4

☒ D. 2

Question ID : 44100912341

Option 1 ID : 44100949157

Option 2 ID : 44100949155

Option 3 ID : 44100949158

Option 4 ID : 44100949156

Status : Answered

Chosen Option : B

Q.3 A seven-digit number is divisible by 21. If 35 is added to this number, the resulting number is divisible by which of the following numbers?

Ans ☒ A. 3

☒ B. 5

☒ C. 15

☒ D. 7

Question ID : 44100931981

Option 1 ID : 441009127400

Option 2 ID : 441009127401

Option 3 ID : 441009127403

Option 4 ID : 441009127402

Status : Answered

Chosen Option : B

Q.3 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 ☒ A. FH-JP

☒ B. AC-EK

☒ C. QS-UA

☒ D. PR-TO

Question ID : 44100912349

Option 1 ID : 44100949190

Option 2 ID : 44100949187

Option 3 ID : 44100949189

Option 4 ID : 44100949188

Status : Answered

Chosen Option : D

Q.3 In a certain code language, 'MATE' is coded as '5689' and 'TRAM' is coded as '8769'.
8 What is the code for 'R' in the given code language?

Ans ☒ A. 8

☒ B. 7

☒ C. 9

☒ D. 5

Question ID : 44100912342

Option 1 ID : 44100949161

Option 2 ID : 44100949159

Option 3 ID : 44100949162

Option 4 ID : 44100949160

Status : Answered

Chosen Option : B

Q.3 In a certain code language,
9 A + B means 'A is the son of B',
A @ B means 'A is the sister of B',
A # B means 'A is the wife of B',
and A ÷ B means 'A is the father of B'.

How can A be related to Y if 'A # S + E ÷ R @ Y'?

Ans ☒ A. Brother's daughter

☒ B. Sister

☒ C. Mother

☒ D. Brother's wife

Question ID : 44100911488

Option 1 ID : 44100945772

Option 2 ID : 44100945774

Option 3 ID : 44100945773

Option 4 ID : 44100945771

Status : Answered

Chosen Option : D

Q.4 A sum of money earns ₹240 as simple interest in 3 years at a rate of 4% per annum.
0 What is the principal amount?

Ans ☒ A. ₹1,820

☒ B. ₹2,000

☒ C. ₹1,600

☒ D. ₹2,150

Question ID : 44100931924

Option 1 ID : 441009127177

Option 2 ID : 441009127178

Option 3 ID : 441009127176

Option 4 ID : 441009127179

Status : Answered

Chosen Option : B

Q.4 Ravi is walking a total distance of 36 km. After walking for 1 hour 30 minutes, he realizes that the distance he has already covered is three-fourths of the remaining distance. Find Ravi's speed (rounded off to 2 decimal places).

Ans ☒ A. 4.20 m/s

☒ B. 2.86 m/s

☒ C. 3.77 m/s

☒ D. 5.20 m/s

Question ID : 44100933795

Option 1 ID : 441009134348

Option 2 ID : 441009134347

Option 3 ID : 441009134349

Option 4 ID : 441009134350

Status : Answered

Chosen Option : B

Q.4 What should come in place of the question mark (?) in the given series?

2 8 29 92 281 848 ?

Ans ☒ A. 2548

☒ B. 2540

☒ C. 2543

☒ D. 2549

Question ID : 44100911587

Option 1 ID : 44100946159

Option 2 ID : 44100946161

Option 3 ID : 44100946162

Option 4 ID : 44100946160

Status : Answered

Chosen Option : D

Q.4 A company's revenue increased by 25% in the first quarter, then decreased by 10% in the second quarter, and finally increased by 15% in the third quarter. If the revenue at the end of the third quarter is ₹12,93,750, what was the revenue at the beginning of the first quarter?

Ans ☒ A. ₹10,00,000

☒ B. ₹9,50,000

☒ C. ₹8,00,000

☒ D. ₹8,50,000

Question ID : 44100933401

Option 1 ID : 441009132791

Option 2 ID : 441009132790

Option 3 ID : 441009132788

Option 4 ID : 441009132789

Status : Answered

Chosen Option : A

Q.4 Calculate the compound interest on ₹20,000 for 2 years at an annual interest rate of 2%, if the interest is compounded half-yearly (round up to two decimal places).

- Ans ☒ A. ₹832
- ☒ B. ₹800
- ☒ C. ₹840.50
- ☒ D. ₹812.08

Question ID : 44100931940

Option 1 ID : 441009127238

Option 2 ID : 441009127236

Option 3 ID : 441009127239

Option 4 ID : 441009127237

Status : Not Answered

Chosen Option : --

Q.4 H, I, J, K, W, X, and Y are sitting around a circular table facing the centre of the table.
5 Only one person sits between Y and J when counted from the right of Y. Only one person sits between J and K. Only one person sits between Y and I. Only two people sit between X and K. Only one person sits between W and I. Who sits third to the right of H?

- Ans ☒ A. J
- ☒ B. K
- ☒ C. W
- ☒ D. Y

Question ID : 44100912327

Option 1 ID : 44100949099

Option 2 ID : 44100949100

Option 3 ID : 44100949101

Option 4 ID : 44100949102

Status : Answered

Chosen Option : A

Q.4 A fair coin is tossed 5 times. What is the probability of getting exactly 3 heads and 2 tails?

- Ans
- ☐ A. $\frac{3}{8}$
- ☐ B. $\frac{7}{12}$
- ☒ C. $\frac{5}{16}$
- ☐ D. $\frac{1}{4}$

Question ID : 44100934370

Option 1 ID : 441009136901

Option 2 ID : 441009136899

Option 3 ID : 441009136900

Option 4 ID : 441009136898

Status : Answered

Chosen Option : C

Q.4 If 'F' stands for '+', 'A' stands for '×', 'S' stands for '+' and 'T' stands for '-', then what will come in place of the question mark (?) in the following equation?

63 F 9 A 10 S 12 T 5 = ?

- Ans
- ☐ A. 74
- ☐ B. 76
- ☒ C. 77
- ☐ D. 78

Question ID : 44100911567

Option 1 ID : 44100946083

Option 2 ID : 44100946084

Option 3 ID : 44100946085

Option 4 ID : 44100946086

Status : Answered

Chosen Option : C

Q.4 8 Two circles of radii 5 cm and 3 cm intersect at two points. The distance between their centres is 6 cm. Find the length of the common chord (the line segment joining the two points of intersection).

- Ans
- ☒ A. $8\frac{3}{11}$ cm
- ☒ B. $5\frac{\sqrt{6}}{7}$ cm
- ☒ C. $7\frac{3}{7}$ cm
- ☒ D. $4\frac{\sqrt{14}}{3}$ cm

Question ID : 44100934527

Option 1 ID : 441009137525

Option 2 ID : 441009137523

Option 3 ID : 441009137524

Option 4 ID : 441009137522

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.4 9 H, I, J, K, W, X, and Y are sitting around a circular table facing the centre of the table. Only two people sit between K and X when counted from the right of K. Only two people sit between X and H. Only three people sit between K and Y. I sits to the immediate left of J. Who sits third to the left of W?

- Ans
- ☒ A. Y
- ☒ B. X
- ☒ C. H
- ☒ D. J

Question ID : 44100912322

Option 1 ID : 44100949082

Option 2 ID : 44100949081

Option 3 ID : 44100949079

Option 4 ID : 44100949080

Status : Answered

Chosen Option : D

Q.5 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 conclusion(s) logically follow(s) from the statements.

Statements:

All boxes are grapes.

All grapes are pins.

Conclusions:

(I): Some pins are grapes.

(II): All boxes are pins.

Ans ✓ A. Both conclusions (I) and (II) follow.

✗ B. Only conclusion (II) follows.

✗ C. Only conclusion (I) follows.

✗ D. Neither conclusion (I) nor (II) follows.

Question ID : 44100911548

Option 1 ID : 44100946007

Option 2 ID : 44100946009

Option 3 ID : 44100946010

Option 4 ID : 44100946008

Status : Answered

Chosen Option : A

Section : Section III General Knowledge

Q.1 According to the Constitution of India, which of the following statements is NOT a function of the Union Public Service Commission?

Ans ✗ A. Disciplinary cases relating to different Civil Services

✗ B. Framing and amendment of Recruitment Rules for various services and posts under the Government

✓ C. Appointment of judges on promotion, deputation and absorption

✗ D. Advising the Government on any matter referred to the Commission by the President of India

Question ID : 44100932268

Option 1 ID : 441009128554

Option 2 ID : 441009128551

Option 3 ID : 441009128553

Option 4 ID : 441009128552

Status : Answered

Chosen Option : C

Q.2 According to the Padma Awards 2025 announcement, how many women have been conferred the Padma Awards?

Ans ✓ A. 23

✗ B. 28

✗ C. 20

✗ D. 31

Question ID : 44100913966

Option 1 ID : 44100955678

Option 2 ID : 44100955679

Option 3 ID : 44100955677

Option 4 ID : 44100955680

Status : Not Answered

Chosen Option : --

Q.3 The Kisan Credit Card (KCC) scheme, a government initiative aimed at providing credit to farmers for agriculture and related activities, was launched in which year?

Ans ✗ A. 2008

✓ B. 1998

✗ C. 2014

✗ D. 1991

Question ID : 44100932209

Option 1 ID : 441009128322

Option 2 ID : 441009128320

Option 3 ID : 441009128321

Option 4 ID : 441009128319

Status : Not Answered

Chosen Option : --

Q.4 Which Constitutional body has Preeti Sudan serving as its Chairperson after being appointed by the President of India in August 2024?

Ans ✓ A. Union Public Service Commission

✗ B. National Commission for Scheduled Tribes

✗ C. National Commission for Scheduled Caste

✗ D. Finance Commission of India

Question ID : 44100932253

Option 1 ID : 441009128493

Option 2 ID : 441009128492

Option 3 ID : 441009128491

Option 4 ID : 441009128494

Status : Not Answered

Chosen Option : --

Q.5 Who among the following was the leader of the Faraizi movement in Bengal?

Ans ☒ A. Dadu Miyan

☒ B. Wazir Ali

☒ C. Bakht Khan

☒ D. Ahmadullah Shah

Question ID : 44100926063

Option 1 ID : 441009103869

Option 2 ID : 441009103867

Option 3 ID : 441009103870

Option 4 ID : 441009103868

Status : Not Answered

Chosen Option : --

Q.6 Which stage of the four-stage demographic transition model is India currently in, transitioning from a stable population with high mortality and fertility to a stable population with low mortality and fertility?

Ans ☒ A. 1st stage

☒ B. 4th stage

☒ C. 2nd stage

☒ D. 3rd stage

Question ID : 44100930368

Option 1 ID : 441009120948

Option 2 ID : 441009120951

Option 3 ID : 441009120949

Option 4 ID : 441009120950

Status : Not Answered

Chosen Option : --

Q.7 Which Article of the Indian Constitution puts a bar to interference by courts in electoral matters related to Municipalities?

Ans ☒ A. Article 243ZG

☒ B. Article 243W

☒ C. Article 243ZA

☒ D. Article 243Y

Question ID : 44100932318

Option 1 ID : 441009128751

Option 2 ID : 441009128752

Option 3 ID : 441009128754

Option 4 ID : 441009128753

Status : Not Answered

Chosen Option : --

Q.8 In which year was the new Enfield rifle with greased cartridges introduced to Indian troops in the British Indian Army?

Ans ☒ A. 1857

☒ B. 1853

☒ C. 1854

☒ D. 1856

Question ID : 44100924936

Option 1 ID : 44100999454

Option 2 ID : 44100999455

Option 3 ID : 44100999456

Option 4 ID : 44100999453

Status : Answered

Chosen Option : A

Q.9 As per the Economic Survey, 2024-25, how many 5G base transceiver stations (BTSs) have been installed across India as of 31 October 2024?

Ans ☒ A. Over 5.6 lakh

☒ B. Over 6.6 lakh

☒ C. Over 4.6 lakh

☒ D. Over 7.6 lakh

Question ID : 44100914118

Option 1 ID : 44100956298

Option 2 ID : 44100956299

Option 3 ID : 44100956297

Option 4 ID : 44100956300

Status : Not Answered

Chosen Option : --

Q.10 In which year was the Rourkela Steel plant set up?

Ans ☒ A. 1956

☒ B. 1959

☒ C. 1950

☒ D. 1952

Question ID : 44100916651

Option 1 ID : 44100966467

Option 2 ID : 44100966468

Option 3 ID : 44100966465

Option 4 ID : 44100966466

Status : Not Answered

Chosen Option : --

Q.1 Where did the first phase of Exercise Tarang Shakti, 2024, take place?
1

- Ans ☐ A. Ambala Air Force Station
- ☐ B. Pune Air Force Station
- ☐ C. Jodhpur Air Force Station
- ☒ D. Air Force Station Sulur

Question ID : 44100914070

Option 1 ID : 44100956099

Option 2 ID : 44100956100

Option 3 ID : 44100956097

Option 4 ID : 44100956098

Status : Not Answered

Chosen Option : --

Q.1 Match the following names of shifting agriculture in List-I with their related states in List-II.
2

List 1: Name of shifting agriculture List 2: State

- A. Valre I. Rajasthan
B. Bringa II. Odisha
C. Pamlou III. Manipur
D. Kuruwa IV. Jharkhand

- Ans ☐ A. A-I, B-III, C-II, D-IV
- ☐ B. A-I, B-IV, C-II, D-III
- ☒ C. A-I, B-II, C-III, D-IV
- ☐ D. A-I, B-II, C-IV, D-III

Question ID : 44100916640

Option 1 ID : 44100966423

Option 2 ID : 44100966424

Option 3 ID : 44100966421

Option 4 ID : 44100966422

Status : Answered

Chosen Option : C

Q.1 An inscription by _____ was found on the pillar containing Prayag Prashasti of the Gupta ruler Samudragupta.
3

- Ans ☐ A. Akbar
- ☐ B. Sher Shah Suri
- ☐ C. Shahjahan
- ☒ D. Jahangir

Question ID : 44100923544

Option 1 ID : 44100993897

Option 2 ID : 44100993898

Option 3 ID : 44100993900

Option 4 ID : 44100993899

Status : Not Answered

Chosen Option : --

Q.1 4 Where was Exercise Yudh Abhyas held between India and the US in September 2024?

Ans ☒ A. New Delhi, India

☒ B. Rajasthan, India

☒ C. Maharashtra, India

☒ D. Punjab, India

Question ID : 44100913984

Option 1 ID : 44100955755

Option 2 ID : 44100955754

Option 3 ID : 44100955753

Option 4 ID : 44100955756

Status : Not Answered

Chosen Option : --

Q.1 5 Tura, one of the highest rainfall receiving places in India, is located in the _____ hills.

Ans ☒ A. Lushai

☒ B. Garo

☒ C. Khasi

☒ D. Jaintia

Question ID : 44100916685

Option 1 ID : 44100966606

Option 2 ID : 44100966603

Option 3 ID : 44100966604

Option 4 ID : 44100966605

Status : Not Answered

Chosen Option : --

Q.1 6 As per the Padma Awards 2025 announcement, which of the following are included in the list of awards?

Ans ☒ A. 7 Padma Vibhushan, 19 Padma Bhushan, 113 Padma Shri

☒ B. 10 Padma Vibhushan, 20 Padma Bhushan, 100 Padma Shri

☒ C. 5 Padma Vibhushan, 25 Padma Bhushan, 120 Padma Shri

☒ D. 9 Padma Vibhushan, 15 Padma Bhushan, 115 Padma Shri

Question ID : 44100913963

Option 1 ID : 44100955665

Option 2 ID : 44100955667

Option 3 ID : 44100955666

Option 4 ID : 44100955668

Status : Not Answered

Chosen Option : --

Q.1 Which of the following leaders was involved in the Maniktala Conspiracy Case (Manicktolla bomb conspiracy)?

- Ans ☒ A. Aurobindo Ghosh
- ☐ B. Bhai Parmanand
- ☐ C. Shyamji Krishna Verma
- ☐ D. Chandra Shekhar Azad

Question ID : 44100926084

Option 1 ID : 441009103953

Option 2 ID : 441009103952

Option 3 ID : 441009103954

Option 4 ID : 441009103951

Status : Not Answered

Chosen Option : --

Q.1 According to the Periodic Labour Force Survey Annual Report 2023-24, unemployment rate decreased from 5.3% in 2017-18 to _____ in 2023-24 in rural areas.

- Ans ☐ A. 4.3%
- ☒ B. 2.5%
- ☐ C. 1.3%
- ☐ D. 4.2%

Question ID : 44100930382

Option 1 ID : 441009121029

Option 2 ID : 441009121030

Option 3 ID : 441009121028

Option 4 ID : 441009121031

Status : Not Answered

Chosen Option : --

Q.1 Match the following biosphere reserves with their related states.

- Biosphere reserve State
- A. Nanda Devi I. Uttarakhand
- B. Similipal II. Odisha
- C. Pachmarhi III. Madhya Pradesh
- D. Seshachalam IV. Andhra Pradesh

- Ans ☐ A. A-I, B-III, C-IV, D-II
- ☒ B. A-I, B-II, C-III, D-IV
- ☐ C. A-II, B-III, C-I, D-IV
- ☐ D. A-III, B-I, C-II, D-IV

Question ID : 44100916722

Option 1 ID : 44100966749

Option 2 ID : 44100966748

Option 3 ID : 44100966750

Option 4 ID : 44100966747

Status : Answered

Chosen Option : B

Q.2 Which of the following statements is INCORRECT about Municipal Corporations?

- Ans ☒ A. Article 243F of the Indian Constitution vests power in Urban Local Bodies to impose various taxes for revenue collection.
- ☒ B. The Constitution (74th Amendment) Act, 1992 conferred Constitutional status to Urban Local Bodies.
- ☒ C. According to Article 243Q of the Indian Constitution, every state shall establish a Municipal Corporation for larger urban areas.
- ☒ D. In Union Territories, Municipal Corporations are established through Acts passed by the Parliament.

Question ID : 44100932321

Option 1 ID : 441009128766

Option 2 ID : 441009128765

Option 3 ID : 441009128763

Option 4 ID : 441009128764

Status : Not Answered

Chosen Option : --

Section : Section IV General English

Q.1 One of the four words in bold in the given sentence is incorrectly spelt. Select the INCORRECTLY spelt word.

The archaeologists carefully **desiccated** the ancient manuscripts, ensuring that their fragile contents were preserved for future examination, despite the surrounding **viccissitudes**, **ephemeral** nature of time, and the ever-encroaching **ineffable** forces of decay.

- Ans ☒ A. ephemeral
- ☒ B. desiccated
- ☒ C. ineffable
- ☒ D. vicissitudes

Question ID : 44100912194

Option 1 ID : 44100948585

Option 2 ID : 44100948583

Option 3 ID : 44100948586

Option 4 ID : 44100948584

Status : Answered

Chosen Option : D

Q.2 Select the most appropriate synonym of the given word.

Instigate

Ans ☒ A. Appease

☒ B. Indict

☒ C. Recriminate

☒ D. Foment

Question ID : 44100912185

Option 1 ID : 44100948547

Option 2 ID : 44100948549

Option 3 ID : 44100948550

Option 4 ID : 44100948548

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.3 Select the most appropriate option to fill in the blanks.

The scientist continued his research _____ his colleagues dismissed his theory, _____ he believed it held significant potential.

Ans ☒ A. because, while

☒ B. even though, as

☒ C. despite, yet

☒ D. whereas, since

Question ID : 44100912015

Option 1 ID : 44100947870

Option 2 ID : 44100947868

Option 3 ID : 44100947869

Option 4 ID : 44100947867

Status : Answered

Chosen Option : B

Q.4 Few words of the given sentence have been underlined. One of them is incorrectly spelt. Select the correct spelling of the incorrectly spelt word.

His pusillanimous refusal to challenge the belligerent accusations exposed his lackadaisical nature, leaving his allies flummoxed by his cowardice.

Ans ☒ A. Floumoxed

☒ B. Lackadaiasical

☒ C. Pusillanimous

☒ D. Belligerrent

Question ID : 44100912230

Option 1 ID : 44100948726

Option 2 ID : 44100948725

Option 3 ID : 44100948723

Option 4 ID : 44100948724

Status : Answered

Chosen Option : C

Q.5 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
P: However, modern literature has shifted towards a more introspective and fragmented approach.
Q: This change reflects the complexities of contemporary society and individual experiences.
R: As a result, storytelling has become more diverse, experimenting with different styles and perspectives.
S: Classical literature often emphasised grand narratives and universal themes.

Ans ☒ A. RSQP

☒ B. PQRS

☒ C. SPQR

☒ D. SRQP

Question ID : 44100912994

Option 1 ID : 44100951769

Option 2 ID : 44100951772

Option 3 ID : 44100951770

Option 4 ID : 44100951771

Status : Answered

Chosen Option : C

Q.6 Select the most appropriate ANTONYM of the given word.

Decadent

Ans ☒ A. Virtuous

☒ B. Rapid

☒ C. Degenerate

☒ D. Obstinate

Question ID : 44100913093

Option 1 ID : 44100952167

Option 2 ID : 44100952165

Option 3 ID : 44100952166

Option 4 ID : 44100952168

Status : Answered

Chosen Option : A

Q.7 Select the most appropriate synonym of the given word.

Indigenous

Ans ☒ A. Exotic

☒ B. Strenuous

☒ C. Acquired

☒ D. Original

Question ID : 44100912184

Option 1 ID : 44100948546

Option 2 ID : 44100948544

Option 3 ID : 44100948543

Option 4 ID : 44100948545

Status : Answered

Chosen Option : D

Q.8 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
P: Stress is a natural response of the body to challenging situations.
Q: While some stress is necessary for motivation, excessive stress can be harmful.
R: Chronic stress can lead to serious health issues, both mental and physical.
S: Managing stress effectively requires self-awareness and coping mechanisms.

Ans ✓ **A. PQRS**

✗ **B. QRSP**

✗ **C. SRPQ**

✗ **D. RSQP**

Question ID : **44100912846**

Option 1 ID : **44100951177**

Option 2 ID : **44100951179**

Option 3 ID : **44100951178**

Option 4 ID : **44100951176**

Status : **Answered**

Chosen Option : **A**

Q.9 Select the most appropriate option to fill in the blanks.

_____ the book received numerous literary awards some readers struggled
 _____ its complex narrative.

Ans ✗ **A. Despite; on**

✗ **B. Since; in**

✓ **C. Although; with**

✗ **D. Before; over**

Question ID : **44100911976**

Option 1 ID : **44100947712**

Option 2 ID : **44100947711**

Option 3 ID : **44100947713**

Option 4 ID : **44100947714**

Status : **Answered**

Chosen Option : **C**

Q.1 Select the most appropriate option to fill in the blank.

0

He adopted such a/an _____ stance that no argument could alter it.

Ans ✓ **A. immutable**

✗ **B. indeterminate**

✗ **C. contentious**

✗ **D. evasive**

Question ID : **44100911900**

Option 1 ID : **44100947413**

Option 2 ID : **44100947411**

Option 3 ID : **44100947414**

Option 4 ID : **44100947412**

Status : **Answered**

Chosen Option : **A**

Q.1 Select the most appropriate option to fill in the blank.

1

Radha completed the task _____, impressing her manager.

Ans

☒ A. slow

☒ B. loud

☒ C. rude

☒ D. quickly

Question ID : 44100912720

Option 1 ID : 44100950655

Option 2 ID : 44100950652

Option 3 ID : 44100950653

Option 4 ID : 44100950654

Status : Answered

Chosen Option : D

Q.1 One of the four words in bold in the given sentence is incorrectly spelt. Identify the
2 incorrectly spelt word and select the option that rectifies it.

His **ambidexterous** ability allowed him to write detailed notes with both hands, an **adroitness** that proved invaluable in **capricious** situations where quick thinking and **conscientious** attention to detail were essential.

Ans

☒ A. Ambidextrous

☒ B. Adroitness

☒ C. Capricious

☒ D. Conscientious

Question ID : 44100912199

Option 1 ID : 44100948603

Option 2 ID : 44100948604

Option 3 ID : 44100948605

Option 4 ID : 44100948606

Status : Answered

Chosen Option : B

Q.1 Sentences of a paragraph are given below. While the first part is in the correct place,
3 the remaining parts (labelled A, B, C and D) are jumbled up. Arrange the parts in the correct order to form a meaningful and coherent paragraph.

1. Plastic is widely used because it is durable and cheap, but this durability also makes it an environmental hazard as most plastics do not break down chemically.
A. To combat this crisis, individuals must reduce plastic use and recycle, while governments should implement refund schemes and invest in new technologies to repurpose plastic waste.
B. Once in the ocean, plastic harms marine life—large pieces cause fatal blockages in digestive tracts, while microplastics release toxins that accumulate up the food chain and pose health risks to humans.
C. Due to improper waste management in many regions, large amounts of plastic waste are washed into the ocean, with a few countries contributing significantly to marine plastic pollution.
D. Since nearly a fifth of the world's population relies on seafood as a primary protein source, plastic contamination in marine ecosystems threatens both food security and public health.

Ans ☒ A. CBDA

☐ B. CABD

☐ C. ACDB

☐ D. DBCA

Question ID : 44100912284

Option 1 ID : 44100948928

Option 2 ID : 44100948929

Option 3 ID : 44100948927

Option 4 ID : 44100948930

Status : Answered

Chosen Option : A

Q.1 Select the most appropriate ANTONYM of the given word.

4

Debacle

Ans ☐ A. Proclivity

☐ B. Ecstasy

☐ C. Farce

☒ D. Success

Question ID : 44100912179

Option 1 ID : 44100948523

Option 2 ID : 44100948526

Option 3 ID : 44100948524

Option 4 ID : 44100948525

Status : Answered

Chosen Option : D

Q.1 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- P. This anxiety forces individuals to confront the responsibility of shaping their own existence.
Q. However, this freedom comes with the burden of making choices without absolute guidelines.
R. Existentialist thinkers argue that human beings are free to define their own meaning in life.
S. The absence of predetermined purpose, they claim, leads to existential anxiety.

Ans ☒ A. RPQS

☒ B. SQRP

☒ C. RQSP

☒ D. PSQR

Question ID : 44100913013

Option 1 ID : 44100951848

Option 2 ID : 44100951847

Option 3 ID : 44100951846

Option 4 ID : 44100951845

Status : Answered

Chosen Option : C

Q.1 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- P: Philosophy encourages individuals to question their beliefs and explore deeper meanings of life.
Q: This pursuit of wisdom leads to self-awareness and personal growth.
R: However, it requires an open mind and a willingness to accept different viewpoints.
S: Through critical thinking, one can challenge assumptions and develop a more refined perspective.

Ans ☒ A. RSQP

☒ B. QPRS

☒ C. PQSR

☒ D. QSPR

Question ID : 44100912839

Option 1 ID : 44100951150

Option 2 ID : 44100951149

Option 3 ID : 44100951151

Option 4 ID : 44100951148

Status : Answered

Chosen Option : C

Q.1 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

P. In a democratic system, public dissatisfaction can arise due to slow decision-making and bureaucratic inefficiencies.

Q. Populist leaders often exploit these frustrations by promising simple solutions to complex issues.

R. While democracy values deliberation and institutional checks, populism thrives on emotional appeal and direct action.

S. However, such approaches frequently lead to authoritarian tendencies, weakening democratic institutions.

Ans ☒ A. QSRP

☒ B. PRQS

☒ C. PQRS

☒ D. SQRP

Question ID : 44100913018

Option 1 ID : 44100951868

Option 2 ID : 44100951867

Option 3 ID : 44100951865

Option 4 ID : 44100951866

Status : Answered

Chosen Option : C

Q.1 Few words of the given sentence have been underlined. One of them is incorrectly spelt. Select the correct spelling of the incorrectly spelt word.

The war sought not only to deracinate entire cultures but also to impose homogeneous values, forcing communities to abandon their ancestral traditions and assimilate into an alien way of life, leaving their idiosyncratic identities in peril.

Ans ☒ A. Homoegeneous

☒ B. Assimillate

☒ C. Idiosyncraitic

☒ D. Deracinate

Question ID : 44100912201

Option 1 ID : 44100948612

Option 2 ID : 44100948613

Option 3 ID : 44100948614

Option 4 ID : 44100948611

Status : Answered

Chosen Option : D

Q.1 Select the most appropriate synonym of the given word.
9

Abstruse

- Ans ☒ A. Concrete
- ☒ B. Courteous
- ☒ C. Lucid
- ☒ D. Esoteric

Question ID : 44100912183

Option 1 ID : 44100948540

Option 2 ID : 44100948542

Option 3 ID : 44100948539

Option 4 ID : 44100948541

Status : Answered

Chosen Option : C

Q.2 Select the most appropriate adjective to fill in the blank.
0

_____ top kept in the jute bag over there is mine.

- Ans ☒ A. This
- ☒ B. These
- ☒ C. That
- ☒ D. Those

Question ID : 44100912704

Option 1 ID : 44100950589

Option 2 ID : 44100950591

Option 3 ID : 44100950590

Option 4 ID : 44100950592

Status : Answered

Chosen Option : D

Q.2 Select the most appropriate ANTONYM of the given word.
1

Obligatory

- Ans ☒ A. Voluntary
- ☒ B. Duncical
- ☒ C. Coercive
- ☒ D. Essential

Question ID : 44100913124

Option 1 ID : 44100952292

Option 2 ID : 44100952289

Option 3 ID : 44100952290

Option 4 ID : 44100952291

Status : Answered

Chosen Option : A

Q.2 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
2
P: A moderate level of inflation is considered beneficial as it encourages spending and investment.
Q: However, uncontrolled inflation can erode purchasing power and disrupt economic stability.
R: Inflation is the rate at which the general level of prices for goods and services rises over time.
S: Therefore, governments and central banks implement policies to regulate inflation and prevent economic crises.

Ans ☒ A. SQRP

☒ B. RPQS

☒ C. RSQP

☒ D. RSPQ

Question ID : 44100912985

Option 1 ID : 44100951734

Option 2 ID : 44100951733

Option 3 ID : 44100951735

Option 4 ID : 44100951736

Status : Answered

Chosen Option : B

Q.2 One of the four words in bold in the given sentence is incorrectly spelt. Identify the incorrectly spelt word and select the option that rectifies it.
3

The scientist refused to give **credense** to the outlandish theory, insisting that only rigorous experimentation and **empirical** evidence could validate such an **abtruse** claim, despite the **bizarre** conclusions drawn by his contemporaries.

Ans ☒ A. Abtruse

☒ B. Emperical

☒ C. Bizaarre

☒ D. Credence

Question ID : 44100912200

Option 1 ID : 44100948609

Option 2 ID : 44100948608

Option 3 ID : 44100948610

Option 4 ID : 44100948607

Status : Answered

Chosen Option : D

Q.2 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- P. This phenomenon challenges classical notions of reality and determinism.
Q. The principle of superposition states that a quantum particle exists in multiple states until it is measured.
R. However, the act of measurement collapses this state into a single observable reality.
S. It suggests that reality at the quantum level is fundamentally probabilistic rather than absolute.

Ans ☒ A. QRSP

☐ B. RPSQ

☐ C. RSQP

☐ D. SRQP

Question ID : 44100913023

Option 1 ID : 44100951887

Option 2 ID : 44100951885

Option 3 ID : 44100951886

Option 4 ID : 44100951888

Status : Answered

Chosen Option : A

Q.2 Select the most appropriate option to fill in the blanks.

5

We drove _____ the coastline of Maine, enjoying the breathtaking views _____ the Atlantic Ocean.

Ans ☒ A. along; of

☐ B. through; in

☐ C. from; to

☐ D. besides; at

Question ID : 44100911969

Option 1 ID : 44100947683

Option 2 ID : 44100947685

Option 3 ID : 44100947684

Option 4 ID : 44100947686

Status : Answered

Chosen Option : A

Q.2 Select the most appropriate synonym of the given word.

6

Obstreperous

Ans ☒ A. Insidious

☒ B. Acquiescent

☒ C. Rebellious

☒ D. Subdued

Question ID : 44100912188

Option 1 ID : 44100948562

Option 2 ID : 44100948561

Option 3 ID : 44100948560

Option 4 ID : 44100948559

Status : Answered

Chosen Option : D

Q.2 Select the most appropriate synonym of the given word.

7

Soporific

Ans ☒ A. Provocative

☒ B. Slumbrous

☒ C. Invigorating

☒ D. Restorative

Question ID : 44100912186

Option 1 ID : 44100948554

Option 2 ID : 44100948553

Option 3 ID : 44100948552

Option 4 ID : 44100948551

Status : Answered

Chosen Option : B

Q.2 Select the most appropriate option to fill in the blank.

8

The poet described the fading twilight _____, painting vivid images of longing and nostalgia.

Ans ☒ A. sporadically

☒ B. edgily

☒ C. consciously

☒ D. evocatively

Question ID : 44100911916

Option 1 ID : 44100947476

Option 2 ID : 44100947478

Option 3 ID : 44100947475

Option 4 ID : 44100947477

Status : Answered

Chosen Option : A

Q.2 Few words of the given sentence have been underlined. One of them is incorrectly spelt. Select the correct spelling of the incorrectly spelt word.

The yaccuous debate, filled with platitudinous statements and ostentatiously irrelevant arguments, left the audience exasperated rather than enlightened.

Ans ☒ A. Vacuous

☐ B. Platitudinous

☐ C. Exasperrated

☐ D. Ostentatiously

Question ID : 44100912229

Option 1 ID : 44100948719

Option 2 ID : 44100948720

Option 3 ID : 44100948722

Option 4 ID : 44100948721

Status : Answered

Chosen Option : C

Q.3 Few words of the given sentence have been underlined. One of them is incorrectly spelt. Select the correct spelling of the incorrectly spelt word.

She managed to invegle her way into the exclusive gala through a combination of mellifluous flattery, obsequious charm, and perspicacious manipulation of social cues.

Ans ☐ A. Obsequioius

☐ B. Melliflouous

☒ C. Inveigle

☐ D. Persepacious

Question ID : 44100912232

Option 1 ID : 44100948733

Option 2 ID : 44100948732

Option 3 ID : 44100948731

Option 4 ID : 44100948734

Status : Not Answered

Chosen Option : --

Q.3 Select the most appropriate option to fill in the blank.

1

The expedition pressed forward _____ the terrain grew increasingly treacherous.

Ans ☒ A. even as

☐ B. owing to

☐ C. since

☐ D. whereas

Question ID : 44100912024

Option 1 ID : 44100947899

Option 2 ID : 44100947902

Option 3 ID : 44100947901

Option 4 ID : 44100947900

Status : Answered

Chosen Option : A

Q.3 Few words of the given sentence have been underlined. One of them is incorrectly spelt. Select the correct spelling of the incorrectly spelt word.

The boardroom was rife with dissension as executives clashed over the company's untenable financial strategy, their fervent arguments fuelled by bureaucratic inefficiencies and disparate inaccuracies.

Ans ☒ A. Desparate

☒ B. Dissension

☒ C. Fueled

☒ D. Unteneble

Question ID : 44100912202

Option 1 ID : 44100948618

Option 2 ID : 44100948615

Option 3 ID : 44100948617

Option 4 ID : 44100948616

Status : Answered

Chosen Option : B

Q.3 Select the most appropriate option to fill in the blanks.

Politicians are not coerced _____ imposing harsh regulations; they do it _____ their own accord.

Ans ☒ A. to; with

☒ B. for; on

☒ C. about; of

☒ D. into; of

Question ID : 44100911959

Option 1 ID : 44100947642

Option 2 ID : 44100947640

Option 3 ID : 44100947641

Option 4 ID : 44100947639

Status : Answered

Chosen Option : B

Q.3 Select the most appropriate synonym of the given word.

4

Incipient

Ans ☒ A. Nascent

☒ B. Propitious

☒ C. Refined

☒ D. Vestigial

Question ID : 44100912189

Option 1 ID : 44100948564

Option 2 ID : 44100948566

Option 3 ID : 44100948563

Option 4 ID : 44100948565

Status : Not Answered

Chosen Option : --

Q.3 Select the most appropriate option to fill in the blank.
5

Renowned for her _____ elegance, the much-lauded stylist orchestrated Hollywood's most iconic looks while adeptly avoiding the limelight.

Ans ☒ A. discrete

☒ B. ostentatious

☒ C. vociferous

☒ D. discreet

Question ID : 44100911889

Option 1 ID : 44100947370

Option 2 ID : 44100947367

Option 3 ID : 44100947369

Option 4 ID : 44100947368

Status : Answered

Chosen Option : A

Q.3 One of the four words in bold in the given sentence is incorrectly spelt. Select the
6 INCORRECTLY spelt word.

The workers' protests grew louder, fuelled by **inexorable** economic pressures and a growing sense of **chagrin**, culminating in a powerful **challenge** to the **bourgeoise** class, whose lavish lifestyles seemed detached from the struggles of the common people.

Ans ☒ A. challenge

☒ B. inexorable

☒ C. bourgeoise

☒ D. chagrin

Question ID : 44100912195

Option 1 ID : 44100948589

Option 2 ID : 44100948587

Option 3 ID : 44100948590

Option 4 ID : 44100948588

Status : Not Answered

Chosen Option : --

Q.3 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
7 P: Many countries joined the war, making it a global conflict.
 Q: After years of fighting, the war finally ended in 1918.
 R: The First World War began in 1914 between major world powers.
 S: The war caused great destruction and loss of life.

Ans ☒ A. SPRQ

☒ B. RPQS

☒ C. SQRQ

☒ D. PQRS

Question ID : 44100912801

Option 1 ID : 44100951006

Option 2 ID : 44100951007

Option 3 ID : 44100951004

Option 4 ID : 44100951005

Status : Answered

Chosen Option : B

Q.3 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
8 P: The digital revolution has transformed the way people communicate, work and access information.
 Q: However, this convenience comes with the challenge of cybersecurity risks.
 R: Data breaches and cyberattacks have become a growing concern in the modern world.
 S: As technology advances, ensuring data privacy and security has become a priority.

Ans ☒ A. RSQP

☒ B. SQRQ

☒ C. PQRS

☒ D. RPQS

Question ID : 44100912998

Option 1 ID : 44100951785

Option 2 ID : 44100951787

Option 3 ID : 44100951788

Option 4 ID : 44100951786

Status : Answered

Chosen Option : C

Q.3 Few words of the given sentence have been underlined. One of them is incorrectly spelt. Select the correct spelling of the incorrectly spelt word.

After years of unyielding struggle, she was finally able to esconce herself in a position of power, where her once-precarious influence now seemed impervious to opposition, solidified by her expertise.

Ans ☒ A. Unyeilding

☒ B. Precarius

☒ C. Ensconce

☒ D. Imprevious

Question ID : 44100912203

Option 1 ID : 44100948619

Option 2 ID : 44100948621

Option 3 ID : 44100948620

Option 4 ID : 44100948622

Status : Answered

Chosen Option : C

Q.4 Select the most appropriate synonym of the given word.

Prevaricate

Ans ☒ A. Confirm

☒ B. Deceive

☒ C. Establish

☒ D. Rationalise

Question ID : 44100912187

Option 1 ID : 44100948557

Option 2 ID : 44100948556

Option 3 ID : 44100948555

Option 4 ID : 44100948558

Status : Answered

Chosen Option : B

Comprehension:

Read the given passage and answer the questions that follow.

Artificial Intelligence (AI) has rapidly integrated into various aspects of human life, revolutionising industries such as healthcare, finance and education. AI-driven algorithms enhance medical diagnoses, automate financial transactions and personalise learning experiences. However, these advancements come with significant ethical dilemmas that society must address.

One primary concern is bias in AI systems. Machine learning algorithms rely on vast datasets, but if these datasets contain biased information, the AI can reinforce existing prejudices. For instance, AI-based hiring tools have, in some cases, favoured certain demographics over others, leading to discrimination. Similarly, facial recognition software has demonstrated racial and gender biases, raising concerns about fairness and accountability.

Another ethical challenge is job displacement. Automation and AI-powered systems have replaced many traditional roles, particularly in manufacturing and customer service. While AI creates new job opportunities in technology and data science, it simultaneously eliminates others, contributing to economic inequality. Policymakers and business leaders must find ways to retrain displaced workers and ensure that technological progress benefits all members of society.

AI also raises questions about privacy and surveillance. Governments and corporations increasingly use AI to analyse personal data, track behaviours and predict consumer preferences. While these applications can improve security and business efficiency, they also threaten individual privacy. In some countries, AI-driven surveillance has been used to monitor citizens, sparking debates about government overreach and human rights.

Perhaps the most profound ethical question is whether AI should make life-altering decisions without human oversight. In healthcare, AI can diagnose diseases with remarkable accuracy, but should it be allowed to determine treatment plans without a doctor's input? In criminal justice, AI-driven risk assessment tools help predict the likelihood of reoffending, but can they truly replace human judgement? These dilemmas highlight the need for ethical guidelines and regulatory frameworks.

As AI continues to evolve, society must strike a balance between innovation and ethical responsibility. Governments, businesses and researchers must work together to ensure AI is developed and deployed in a manner that upholds fairness, transparency and human dignity.

SubQuestion No : 41

Q.4 Which real-world issue is closely related to AI-driven surveillance?

1

Ans ☐ A. Reduction in the cost of goods and services for the consumers

☒ B. Increasing concerns about government overreach and privacy violations

☐ C. Blind trust of the public in AI technologies

☐ D. Allowing AI to operate without any restrictions

Question ID : 44100918117

Option 1 ID : 44100972288

Option 2 ID : 44100972287

Option 3 ID : 44100972290

Option 4 ID : 44100972289

Status : Answered

Chosen Option : B

Comprehension:

Read the given passage and answer the questions that follow.

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As AI continues to evolve, society must strike a balance between innovation and ethical responsibility. Governments, businesses and researchers must work together to ensure AI is developed and deployed in a manner that upholds fairness, transparency and human dignity.

SubQuestion No : 42

Q.4 What is a potential ethical solution to job displacement caused by AI?
2

Ans ☐ A. Allow AI to operate freely without any regulatory oversight.

☐ B. Grant the same rights and responsibilities as humans to AI.

☐ C. Completely ban AI.

☒ D. Provide retraining programmes for displaced workers.

Question ID : 44100918119

Option 1 ID : 44100972297

Option 2 ID : 44100972296

Option 3 ID : 44100972295

Option 4 ID : 44100972298

Status : Answered

Chosen Option : D

Comprehension:

Read the given passage and answer the questions that follow.

Artificial Intelligence (AI) has rapidly integrated into various aspects of human life, revolutionising industries such as healthcare, finance and education. AI-driven algorithms enhance medical diagnoses, automate financial transactions and personalise learning experiences. However, these advancements come with significant ethical dilemmas that society must address.

One primary concern is bias in AI systems. Machine learning algorithms rely on vast datasets, but if these datasets contain biased information, the AI can reinforce existing prejudices. For instance, AI-based hiring tools have, in some cases, favoured certain demographics over others, leading to discrimination. Similarly, facial recognition software has demonstrated racial and gender biases, raising concerns about fairness and accountability.

Another ethical challenge is job displacement. Automation and AI-powered systems have replaced many traditional roles, particularly in manufacturing and customer service. While AI creates new job opportunities in technology and data science, it simultaneously eliminates others, contributing to economic inequality. Policymakers and business leaders must find ways to retrain displaced workers and ensure that technological progress benefits all members of society.

AI also raises questions about privacy and surveillance. Governments and corporations increasingly use AI to analyse personal data, track behaviours and predict consumer preferences. While these applications can improve security and business efficiency, they also threaten individual privacy. In some countries, AI-driven surveillance has been used to monitor citizens, sparking debates about government overreach and human rights.

Perhaps the most profound ethical question is whether AI should make life-altering decisions without human oversight. In healthcare, AI can diagnose diseases with remarkable accuracy, but should it be allowed to determine treatment plans without a doctor's input? In criminal justice, AI-driven risk assessment tools help predict the likelihood of reoffending, but can they truly replace human judgement? These dilemmas highlight the need for ethical guidelines and regulatory frameworks.

As AI continues to evolve, society must strike a balance between innovation and ethical responsibility. Governments, businesses and researchers must work together to ensure AI is developed and deployed in a manner that upholds fairness, transparency and human dignity.

SubQuestion No : 43

Q.4 Which of the following best summarises the ethical dilemma of AI in criminal justice?
3

Ans ✓ A. AI can predict crime but should not be used to judge individuals without oversight.

✗ B. AI is making traditional jobs more stable and secure.

✗ C. AI should completely replace human decision-making in all industries.

✗ D. AI doesn't require strict regulations to ensure fairness and accountability.

Question ID : 44100918118

Option 1 ID : 44100972294

Option 2 ID : 44100972293

Option 3 ID : 44100972291

Option 4 ID : 44100972292

Status : Answered

Chosen Option : A

Comprehension:

Read the given passage and answer the questions that follow.

Artificial Intelligence (AI) has rapidly integrated into various aspects of human life, revolutionising industries such as healthcare, finance and education. AI-driven algorithms enhance medical diagnoses, automate financial transactions and personalise learning experiences. However, these advancements come with significant ethical dilemmas that society must address.

One primary concern is bias in AI systems. Machine learning algorithms rely on vast datasets, but if these datasets contain biased information, the AI can reinforce existing prejudices. For instance, AI-based hiring tools have, in some cases, favoured certain demographics over others, leading to discrimination. Similarly, facial recognition software has demonstrated racial and gender biases, raising concerns about fairness and accountability.

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As AI continues to evolve, society must strike a balance between innovation and ethical responsibility. Governments, businesses and researchers must work together to ensure AI is developed and deployed in a manner that upholds fairness, transparency and human dignity.

SubQuestion No : 44

Q.4 What is the contribution of AI in economic inequality?

Ans ✓ A. It creates jobs that require specific skills and eliminates others.

✗ B. It ensures fairness, transparency and human dignity.

✗ C. It will be replacing all human roles in the future.

✗ D. It eliminates subjective human judgement.

Question ID : 44100918116

Option 1 ID : 44100972285

Option 2 ID : 44100972283

Option 3 ID : 44100972284

Option 4 ID : 44100972286

Status : Answered

Chosen Option : A

Comprehension:

Read the given passage and answer the questions that follow.

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One primary concern is bias in AI systems. Machine learning algorithms rely on vast datasets, but if these datasets contain biased information, the AI can reinforce existing prejudices. For instance, AI-based hiring tools have, in some cases, favoured certain demographics over others, leading to discrimination. Similarly, facial recognition software has demonstrated racial and gender biases, raising concerns about fairness and accountability.

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Perhaps the most profound ethical question is whether AI should make life-altering decisions without human oversight. In healthcare, AI can diagnose diseases with remarkable accuracy, but should it be allowed to determine treatment plans without a doctor's input? In criminal justice, AI-driven risk assessment tools help predict the likelihood of reoffending, but can they truly replace human judgement? These dilemmas highlight the need for ethical guidelines and regulatory frameworks.

As AI continues to evolve, society must strike a balance between innovation and ethical responsibility. Governments, businesses and researchers must work together to ensure AI is developed and deployed in a manner that upholds fairness, transparency and human dignity.

SubQuestion No : 45

Q.4 What is an implied effect of biased AI algorithms?
5

- Ans
- ☐ A. Zero efficiency in AI-driven decision-making
 - ☐ B. Increasing negative consequences of AI for society
 - ☐ C. Intervention of government in AI regulation
 - ☒ D. Reinforcement of existing social prejudices

Question ID : 44100918115

Option 1 ID : 44100972280

Option 2 ID : 44100972282

Option 3 ID : 44100972281

Option 4 ID : 44100972279

Status : Answered

Chosen Option : D

Comprehension:

Read the given passage and answer the questions that follow.

The nature of work has undergone a remarkable transformation in the last few decades. With advancements in technology, the widespread adoption of remote work and the rise of the gig economy, the traditional 9-to-5 office model is no longer the dominant structure. Companies are increasingly shifting towards flexible working arrangements, allowing employees to balance personal and professional commitments more effectively. This shift has been accelerated by the COVID-19 pandemic, which forced organisations worldwide to rethink their work models. While remote work has provided greater autonomy and reduced commuting stress, it has also introduced challenges such as blurred boundaries between work and personal life, decreased social interaction and difficulties in team collaboration. Many employees find themselves working longer hours than before, as the distinction between office time and personal time becomes less clear. On the other hand, businesses have benefited from lower operational costs and access to a broader talent pool unrestricted by geographical limitations. The gig economy—comprising freelancers, independent contractors and temporary workers—has also gained prominence. Platforms like Upwork, Fiverr and TaskRabbit have enabled professionals to work on a project-by-project basis, giving them the flexibility to choose assignments. However, this comes with its own challenges, such as income instability, lack of job security and the absence of employer-provided benefits like healthcare or retirement plans. As organisations adapt to these evolving work structures, governments and policymakers face the challenge of ensuring fair labour practices. The debate over employee rights, fair wages and benefits for gig workers continues to grow. Some countries have introduced legislation to classify gig workers as employees, while others maintain that the gig economy offers individuals the freedom to work on their own terms. Looking ahead, the future of work will likely be a hybrid model that combines the best aspects of remote, freelance and traditional employment. Companies will need to balance flexibility with employee well-being, while governments must regulate labour laws to address the concerns of modern workers.

SubQuestion No : 46

Q.4 Which of the following statements best captures the future of work as predicted in the passage?

- Ans** ☒ A. Governments will ignore labour issues, and companies will force employees back to offices.
- ☒ B. Gig economy will no longer be a significant part of the modern workforce.
- ☒ C. Companies will completely eliminated remote work, and governments will have no role in workplace policies.
- ☒ D. A hybrid model will likely emerge, blending remote, freelance and traditional work.

Question ID : 44100918084

Option 1 ID : 44100972165

Option 2 ID : 44100972163

Option 3 ID : 44100972166

Option 4 ID : 44100972164

Status : Answered

Chosen Option : D

Comprehension:

Read the given passage and answer the questions that follow.

The nature of work has undergone a remarkable transformation in the last few decades. With advancements in technology, the widespread adoption of remote work and the rise of the gig economy, the traditional 9-to-5 office model is no longer the dominant structure. Companies are increasingly shifting towards flexible working arrangements, allowing employees to balance personal and professional commitments more effectively. This shift has been accelerated by the COVID-19 pandemic, which forced organisations worldwide to rethink their work models.

While remote work has provided greater autonomy and reduced commuting stress, it has also introduced challenges such as blurred boundaries between work and personal life, decreased social interaction and difficulties in team collaboration. Many employees find themselves working longer hours than before, as the distinction between office time and personal time becomes less clear. On the other hand, businesses have benefited from lower operational costs and access to a broader talent pool unrestricted by geographical limitations.

The gig economy—comprising freelancers, independent contractors and temporary workers—has also gained prominence. Platforms like Upwork, Fiverr and TaskRabbit have enabled professionals to work on a project-by-project basis, giving them the flexibility to choose assignments. However, this comes with its own challenges, such as income instability, lack of job security and the absence of employer-provided benefits like healthcare or retirement plans. As organisations adapt to these evolving work structures, governments and policymakers face the challenge of ensuring fair labour practices. The debate over employee rights, fair wages and benefits for gig workers continues to grow. Some countries have introduced legislation to classify gig workers as employees, while others maintain that the gig economy offers individuals the freedom to work on their own terms.

Looking ahead, the future of work will likely be a hybrid model that combines the best aspects of remote, freelance and traditional employment. Companies will need to balance flexibility with employee well-being, while governments must regulate labour laws to address the concerns of modern workers.

SubQuestion No : 47

Q.4 Which of the following trends is most closely linked to the rise of the gig economy?
7

Ans ☒ A. Rise in the number of working hours to compensate for lack of direct supervision.

☒ B. Eliminating remote work opportunities to bring employees back to the office.

☒ C. Removing regulations on contract-based work.

☒ D. The rise in the use of online platforms for employment opportunities.

Question ID : 44100918083

Option 1 ID : 44100972160

Option 2 ID : 44100972161

Option 3 ID : 44100972162

Option 4 ID : 44100972159

Status : Answered

Chosen Option : D

Comprehension:

Read the given passage and answer the questions that follow.

The nature of work has undergone a remarkable transformation in the last few decades. With advancements in technology, the widespread adoption of remote work and the rise of the gig economy, the traditional 9-to-5 office model is no longer the dominant structure. Companies are increasingly shifting towards flexible working arrangements, allowing employees to balance personal and professional commitments more effectively. This shift has been accelerated by the COVID-19 pandemic, which forced organisations worldwide to rethink their work models.

While remote work has provided greater autonomy and reduced commuting stress, it has also introduced challenges such as blurred boundaries between work and personal life, decreased social interaction and difficulties in team collaboration. Many employees find themselves working longer hours than before, as the distinction between office time and personal time becomes less clear. On the other hand, businesses have benefited from lower operational costs and access to a broader talent pool unrestricted by geographical limitations.

The gig economy—comprising freelancers, independent contractors and temporary workers—has also gained prominence. Platforms like Upwork, Fiverr and TaskRabbit have enabled professionals to work on a project-by-project basis, giving them the flexibility to choose assignments. However, this comes with its own challenges, such as income instability, lack of job security and the absence of employer-provided benefits like healthcare or retirement plans. As organisations adapt to these evolving work structures, governments and policymakers face the challenge of ensuring fair labour practices. The debate over employee rights, fair wages and benefits for gig workers continues to grow. Some countries have introduced legislation to classify gig workers as employees, while others maintain that the gig economy offers individuals the freedom to work on their own terms.

Looking ahead, the future of work will likely be a hybrid model that combines the best aspects of remote, freelance and traditional employment. Companies will need to balance flexibility with employee well-being, while governments must regulate labour laws to address the concerns of modern workers.

SubQuestion No : 48

Q.4 Which of the following states the main idea of the passage?
8

Ans ☒ A. Work culture is changing and therefore demands flexibility with fair labour practices between the government and companies.

☒ B. Traditional office work is the best employment model.

☒ C. Government should put a ban on gig economy.

☒ D. Remote work and gig economy will soon fade away.

Question ID : 44100918082

Option 1 ID : 44100972158

Option 2 ID : 44100972157

Option 3 ID : 44100972155

Option 4 ID : 44100972156

Status : Answered

Chosen Option : A

Comprehension:

Read the given passage and answer the questions that follow.

The nature of work has undergone a remarkable transformation in the last few decades. With advancements in technology, the widespread adoption of remote work and the rise of the gig economy, the traditional 9-to-5 office model is no longer the dominant structure. Companies are increasingly shifting towards flexible working arrangements, allowing employees to balance personal and professional commitments more effectively. This shift has been accelerated by the COVID-19 pandemic, which forced organisations worldwide to rethink their work models. While remote work has provided greater autonomy and reduced commuting stress, it has also introduced challenges such as blurred boundaries between work and personal life, decreased social interaction and difficulties in team collaboration. Many employees find themselves working longer hours than before, as the distinction between office time and personal time becomes less clear. On the other hand, businesses have benefited from lower operational costs and access to a broader talent pool unrestricted by geographical limitations. The gig economy—comprising freelancers, independent contractors and temporary workers—has also gained prominence. Platforms like Upwork, Fiverr and TaskRabbit have enabled professionals to work on a project-by-project basis, giving them the flexibility to choose assignments. However, this comes with its own challenges, such as income instability, lack of job security and the absence of employer-provided benefits like healthcare or retirement plans. As organisations adapt to these evolving work structures, governments and policymakers face the challenge of ensuring fair labour practices. The debate over employee rights, fair wages and benefits for gig workers continues to grow. Some countries have introduced legislation to classify gig workers as employees, while others maintain that the gig economy offers individuals the freedom to work on their own terms. Looking ahead, the future of work will likely be a hybrid model that combines the best aspects of remote, freelance and traditional employment. Companies will need to balance flexibility with employee well-being, while governments must regulate labour laws to address the concerns of modern workers.

SubQuestion No : 49

Q.4 Which of the following could be the most appropriate long-term consequence of widespread remote work?

- Ans** ☒ A. Companies may no longer require physical office spaces.
- ☒ B. The employees will have no flexibility in their work arrangements.
- ☒ C. Remote work will have zero disadvantages.
- ☒ D. There will be a better team collaboration among the employees.

Question ID : 44100918081

Option 1 ID : 44100972152

Option 2 ID : 44100972153

Option 3 ID : 44100972154

Option 4 ID : 44100972151

Status : Answered

Chosen Option : B

Comprehension:

Read the given passage and answer the questions that follow.

The nature of work has undergone a remarkable transformation in the last few decades. With advancements in technology, the widespread adoption of remote work and the rise of the gig economy, the traditional 9-to-5 office model is no longer the dominant structure. Companies are increasingly shifting towards flexible working arrangements, allowing employees to balance personal and professional commitments more effectively. This shift has been accelerated by the COVID-19 pandemic, which forced organisations worldwide to rethink their work models. While remote work has provided greater autonomy and reduced commuting stress, it has also introduced challenges such as blurred boundaries between work and personal life, decreased social interaction and difficulties in team collaboration. Many employees find themselves working longer hours than before, as the distinction between office time and personal time becomes less clear. On the other hand, businesses have benefited from lower operational costs and access to a broader talent pool unrestricted by geographical limitations. The gig economy—comprising freelancers, independent contractors and temporary workers—has also gained prominence. Platforms like Upwork, Fiverr and TaskRabbit have enabled professionals to work on a project-by-project basis, giving them the flexibility to choose assignments. However, this comes with its own challenges, such as income instability, lack of job security and the absence of employer-provided benefits like healthcare or retirement plans. As organisations adapt to these evolving work structures, governments and policymakers face the challenge of ensuring fair labour practices. The debate over employee rights, fair wages and benefits for gig workers continues to grow. Some countries have introduced legislation to classify gig workers as employees, while others maintain that the gig economy offers individuals the freedom to work on their own terms. Looking ahead, the future of work will likely be a hybrid model that combines the best aspects of remote, freelance and traditional employment. Companies will need to balance flexibility with employee well-being, while governments must regulate labour laws to address the concerns of modern workers.

SubQuestion No : 50

Q.5 Why do some governments classify gig workers as employees?

Ans ☐ A. To promote traditional 9-to-5 office model

☒ B. To make sure that they get job security and benefits

☐ C. To focus on corporate profits

☐ D. To discontinue work from home as an option

Question ID : 44100918080

Option 1 ID : 44100972148

Option 2 ID : 44100972149

Option 3 ID : 44100972150

Option 4 ID : 44100972147

Status : Answered

Chosen Option : B