



Delhi Development Authority
(Recruitment Cell)
Advertisement No. 03/2022/Recvt.Cell./Pers./DDA

Participant ID	
Participant Name	
Test Center Name	Online Infra
Test Date	29/03/2023
Test Time	12:30 PM - 2:30 PM
Subject	Junior Engineer (Civil)

Section : Domain Questions

Q.1 Which of the following is the performance efficiency of slow sand filter?

1. It removes about 98 to 99% bacteria.
2. It removes turbidity to the extent of 50 PPM.
3. It does not remove colour of raw water.
4. It removes about 95% colloidal matter.

- Ans**
- 1. 2 and 3
 - 2. 3 and 4
 - 3. 1 and 2
 - 4. 1 and 4

Question ID : 630680197286

Status : Answered

Chosen Option : 4

Q.2 Which of the following objectives of seasoning of wood is INCORRECT?

1. Reduce the shrinkage and warping after placement in the structure
2. Increase strength, durability and workability
3. Increase its weight
4. Make it difficult to paint

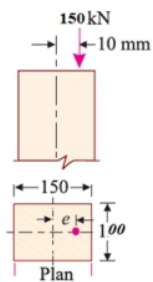
- Ans
- 1. 3 and 4
 - 2. 1 and 3
 - 3. 2 and 3
 - 4. 1 and 2

Question ID : 630680197211

Status : Answered

Chosen Option : 1

Q.3 A rectangular column is 150 mm and 100 mm thick and carries a load of 150 kN at an eccentricity of 10 mm in a plane bisecting the thickness. Find the maximum and minimum intensities of stress in the section.



- Ans
- 1. 18 MPa and 8 MPa
 - 2. 14 MPa and 6 MPa
 - 3. 10 MPa and 4 MPa
 - 4. 24 MPa and 10 MPa

Question ID : 630680197233

Status : Answered

Chosen Option : 2

Q.4 Which of the following is NOT an objective of varnishing a surface?

- Ans
- 1. To protect the painted surface from atmospheric actions
 - 2. To brighten the appearance of the grain in wood
 - 3. To enhance the aesthetic appearance of a painted metal
 - 4. To render brilliancy to the painted surface

Question ID : 630680197215

Status : Answered

Chosen Option : 1

Q.5 Which of the following conditions should satisfy for the formation of supercritical flow in an open channel?

Ans 1.

When the depth of flow in a channel is less than critical depth and Froude's number is greater than 1

2.

When the depth of flow in a channel is greater than critical depth and Froude's number is greater than 1

3.

When the depth of flow in a channel is greater than critical depth and Froude's number is less than 1

4.

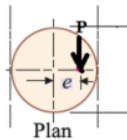
When the depth of flow in a channel is equal to critical depth and Froude's number is equal to zero

Question ID : 630680197257

Status : Answered

Chosen Option : 1

Q.6 A circular compression specimen having a cross-sectional area of 100 mm^2 and section modulus of 200 mm^3 carries a load of 100 kN at an eccentricity of 10 mm, as shown in the given figure. What is the maximum stress induced in the section?



Ans

1. 4000 N/mm^2

2. 7000 N/mm^2

3. 5000 N/mm^2

4. 6000 N/mm^2

Question ID : 630680197267

Status : Answered

Chosen Option : 4

Q.7 Which of the following conditions is valid in the case of flow through parallel pipes?

Ans 1.

The rate of discharge in the main line is not equal to the sum of the discharges in each of the parallel pipes.

2.

The velocity of flow in the main line is equal to the sum of the velocities in each of the parallel pipes.

3. The loss of head in each parallel pipe is different.

4.

The rate of discharge in the main line is equal to the sum of the discharges in each of the parallel pipes.

Question ID : 630680197256

Status : Answered

Chosen Option : 4

Q.8 All the following are the assumptions made in Terzaghi's theory of consolidation EXCEPT:

Ans 1.

the coefficient of permeability of soil varies at all points during the entire period of consolidation

2. the soil is fully saturated

3. the soil is homogeneous and isotropic

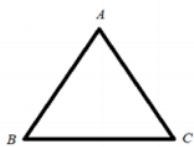
4. Darcy's law is valid throughout the consolidation process

Question ID : 630680197249

Status : Answered

Chosen Option : 1

Q.9 An equilateral triangular section ABC has a base width of 80 mm and height of 60 mm. The moment of inertia about the base BC is:



Ans

1. $1260 \times 10^3 \text{ mm}^4$

2. $360 \times 10^3 \text{ mm}^4$

3. $650 \times 10^3 \text{ mm}^4$

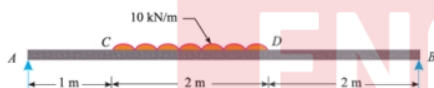
4. $1440 \times 10^3 \text{ mm}^4$

Question ID : 630680197229

Status : Answered

Chosen Option : 4

Q.10 A simply supported beam carrying a uniformly distributed load of 10 kN/m is shown in the given figure. Determine the distance at which shear force is equal to zero from point C.



Ans

1. 1.0 m

2. 1.2 m

3. 1.7 m

4. 1.5 m

Question ID : 630680197230

Status : Answered

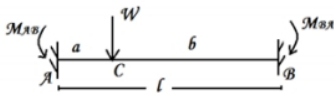
Chosen Option : 2

Q.11 According to IS : 4111-1986, the spacing of manholes above _____ may be allowed on straight runs for sewers of diameter above 900 to 1500 mm.

- Ans
- 1. 200 to 300 m
 - 2. 30 to 100 m
 - 3. 150 to 200 m
 - 4. 90 to 150 m

Question ID : 630680197284
Status : Not Answered
Chosen Option : --

Q.12 The fixed beam shown in the given figure carries a point load. What are fixed end moments M_{AB} and M_{BA} ?



- Ans
- 1. $M_{AB} = \frac{Wab^2}{l^2}$ and $M_{BA} = \frac{Wba^2}{l^2}$
 - 2. $M_{AB} = \frac{Wab^3}{l^2}$ and $M_{BA} = \frac{Wba^3}{l^2}$
 - 3. $M_{AB} = \frac{Wab^2}{2l^2}$ and $M_{BA} = \frac{Wba^2}{2l^2}$
 - 4. $M_{AB} = \frac{Wab^2}{l}$ and $M_{BA} = \frac{Wba^2}{l}$

Question ID : 630680197265
Status : Answered
Chosen Option : 1

Q.13 A soil has a liquid limit of 25% and a flow index of 12%. If the plastic limit is 15%, determine the toughness index.

- Ans
- 1. 83.33%
 - 2. 78.55%
 - 3. 86.66%
 - 4. 75.55%

Question ID : 630680197251
Status : Answered
Chosen Option : 1

Q.14 According to IS : 456-2000, for a cantilever beam, the clear distance from the free end of the cantilever to the lateral restraint shall not exceed _____ (where d is the effective depth of the beam and b is the breadth of the compression face midway between the lateral restraints).

Ans

- 1. $60 b$ or $\frac{250b^2}{d}$ whichever is less
- 2. $60 d$ or $\frac{250d^2}{b}$ whichever is less
- 3. $25 d$ or $\frac{100d^2}{b}$ whichever is less
- 4. $25 b$ or $\frac{100b^2}{d}$ whichever is less

Question ID : 630680197268

Status : Answered

Chosen Option : 4

Q.15 Which of the following rock types belongs to the igneous rock group?

Ans

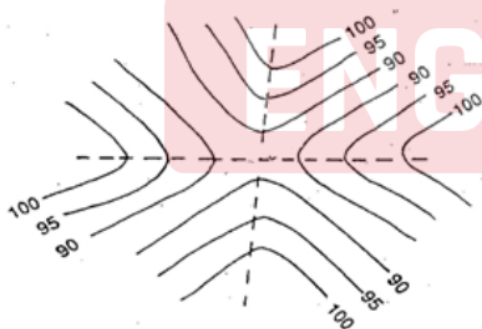
- 1. Marble
- 2. Rhyolite
- 3. Schist
- 4. Shale

Question ID : 630680197210

Status : Answered

Chosen Option : 2

Q.16 Identify the contour map shown in the given figure.



Ans

- 1. Depression
- 2. Valley
- 3. Ridge
- 4. Saddle

Question ID : 630680197220

Status : Answered

Chosen Option : 3

Q.17 What is the minimum grade of concrete that is used in the case of reinforced cement concrete when exposed to a sea coast directly?

- Ans
- 1. M30
 - 2. M40
 - 3. M25
 - 4. M20

Question ID : 630680197241
Status : Answered
Chosen Option : 1

Q.18 For discharge Q , the specific speed of a pump is N_s . For half discharge with the same head, the specific speed will be:

- Ans
- 1. $2N_s$
 - 2. $\frac{N_s}{2}$
 - 3. $N_s\sqrt{2}$
 - 4. $\frac{N_s}{\sqrt{2}}$

Question ID : 630680197260
Status : Answered
Chosen Option : 4

Q.19 The theodolite in which the telescope can be revolved through a complete revolution in a vertical plane is called _____.

- Ans
- 1. tilting theodolite
 - 2. non-transit theodolite
 - 3. transit theodolite
 - 4. dumpy level

Question ID : 630680197225
Status : Answered
Chosen Option : 3

Q.20 The flexural strength of concrete for M25 grade concrete as per IS : 456-2000 is:

- Ans
- 1. 3.0 N/mm^2
 - 2. 2.0 N/mm^2
 - 3. 2.5 N/mm^2
 - 4. 3.5 N/mm^2

Question ID : 630680197239
Status : Answered
Chosen Option : 4

Q.21 When a rectangular lamina is immersed in water at a depth of 75 mm vertically, what is the depth of centre of pressure of the lamina?

- Ans**
- 1. 18.75 mm
 - 2. 50.0 mm
 - 3. 112.5 mm
 - 4. 37.5 mm

Question ID : 630680197254

Status : Answered

Chosen Option : 2

Q.22 A cantilever rectangular beam has 40 mm width and 60 mm depth. If the cantilever is subjected to a point load of 6 kN at the free end and the bending stress is not to exceed 40 MPa, find the span of the cantilever beam.



- Ans**
- 1. 160 mm
 - 2. 140 mm
 - 3. 180 mm
 - 4. 210 mm

Question ID : 630680197231

Status : Answered

Chosen Option : 1

Q.23 For the design of the steel members, which of the following is NOT a correct combination of Load as per IS 800:2007?

- Ans**
- 1. Dead load + imposed load + wind + earthquake load
 - 2. Dead load + wind or earthquake load
 - 3. Dead load+ erection load.
 - 4. Dead load + imposed load

Question ID : 630680197271

Status : Answered

Chosen Option : 1

Q.24 Which of the following statements related to manufacturing of the given materials is correct?

- 1) Asphalt is manufactured by fractional distillation of crude petroleum.
- 2) Tar is manufactured by fractional distillation of organic materials.

- Ans**
- 1. Both statements are correct
 - 2. Statement 1 is correct but Statement 2 is incorrect
 - 3. Both statements are incorrect
 - 4. Statement 1 is incorrect but Statement 2 is correct

Question ID : 630680197217
Status : Answered
Chosen Option : 3

Q.25 The maximum effective slenderness ratio of steel members always in tension (other than pre-tensioned members) is

_____.

- Ans**
- 1. 400
 - 2. 250
 - 3. 350
 - 4. 180

Question ID : 630680197274
Status : Answered
Chosen Option : 1

Q.26 In the Indian Soil classification system, coarse-grained soils comprise:

- Ans**
- 1. cobble, silt, clay and sand
 - 2. silt, cobble, sand and gravel
 - 3. boulder, cobble, gravel and sand
 - 4. Boulder, cobble, gravel and silt

Question ID : 630680197246
Status : Answered
Chosen Option : 3

Q.27 To which type of plane table method does the given problem belong?

Establishing a new station point using two-point at a place in order to locate missing details

- Ans**
- 1. Traversing
 - 2. Intersection
 - 3. Radiation
 - 4. Resection

Question ID : 630680197224
Status : Answered
Chosen Option : 4

Q.28 Which of the following statements is correct when the marine deposits are under a very large depth of water?

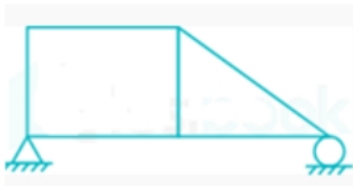
- Ans
- 1. It has low effective stress and high shear strength
 - 2. It has low effective stress and low shear strength
 - 3. It has high effective stress and low shear strength
 - 4. It has high effective stress and high shear strength

Question ID : 630680197248

Status : Answered

Chosen Option : 2

Q.29 Identify the type of truss shown in the given figure.



- Ans
- 1. Space truss
 - 2. Deficient truss
 - 3. Redundant truss
 - 4. Perfect truss

Question ID : 630680197262

Status : Not Answered

Chosen Option : --

Q.30 In which type of shear failure does the failure surface NOT extend up to the ground surface when a strip footing rests on loose sand or soft clay?

- Ans
- 1. Local shear failure
 - 2. General shear failure
 - 3. Meyerhof's failure
 - 4. Punching shear failure

Question ID : 630680197252

Status : Answered

Chosen Option : 2

Q.31 As per the Central Pollution Control Board norms, the maximum permissible limit of 3 days biochemical oxygen demand at 27°C in wastewater effluent when discharged into an inland river or stream is _____.

- Ans**
- 1. 100 mg/l
 - 2. 500 mg/l
 - 3. 30 mg/l
 - 4. 350 mg/l

Question ID : 630680197281
Status : Not Answered
Chosen Option : --

Q.32 As per IS : 456-2000, what is the recommended value of effective length of RCC compression member of unsupported length l that is effectively held in position and restrained against rotation at one end and at the other restrained against rotation but not held in position?

- Ans**
- 1. 0.65 l
 - 2. 1.2 l
 - 3. 2.0 l
 - 4. 1.5 l

Question ID : 630680197272
Status : Answered
Chosen Option : 2

Q.33 Match the type of levelling with its application.

Type of levelling	Process
1. Simple levelling	A. When the differential levelling is done in order to connect a benchmark to the starting point of the alignment of project
2. Differential levelling	B. When the difference of level between two points is determined by setting the level instrument midway between two points
3. Fly levelling	C. The process of taking levels transverse to the direction of longitudinal levelling
4. Cross-sectional levelling	D. When the difference of elevation between the points is large and there are obstacles between the points

- Ans**
- 1. 1-B; 2-C; 3-A; 4-D
 - 2. 1-B; 2-D; 3-A; 4-C
 - 3. 1-C; 2-D; 3-A; 4-B
 - 4. 1-B; 2-A; 3-D; 4-C

Question ID : 630680197223
Status : Answered
Chosen Option : 1

Q.34 A beam of the triangular section having a base width of 100 mm and height of 150 mm is subjected to a shear force of 15 kN. Find the value of the maximum shear stress.

- Ans
- 1. 2 MPa
 - 2. 5 MPa
 - 3. 3 MPa
 - 4. 4 MPa

Question ID : 630680197232
Status : Answered
Chosen Option : 3

Q.35 What is the indent of 'frog' in a standard modular burnt clay brick?

- Ans
- 1. 20 mm to 30 mm
 - 2. 5 mm to 10 mm
 - 3. 10 mm to 20 mm
 - 4. 30 mm to 40 mm

Question ID : 630680197209
Status : Answered
Chosen Option : 3

Q.36 Which of the following theorems states that if a beam has 'n' supports, the end being fixed, then the same number of equations required to determine the support moments may be obtained from the consecutive pairs of spans?

- Ans
- 1. Clapeyron's theorem
 - 2. Moment area theorem
 - 3. Strain energy theorem
 - 4. Mohr's theorem

Question ID : 630680197263
Status : Not Answered
Chosen Option : --

Q.37 The magnetic bearing of a line is $135^{\circ} 30'$. What is the true bearing if the declination is $5^{\circ} 15' W$?

- Ans
- 1. $140^{\circ} 45'$
 - 2. $120^{\circ} 15'$
 - 3. $115^{\circ} 45'$
 - 4. $130^{\circ} 15'$

Question ID : 630680197219
Status : Answered
Chosen Option : 4

Q.38 Which type of formwork requires a maximum stripping time of 14 days?

- Ans
- 1. Props to beams spanning over 6 m
 - 2. Props to slabs spanning over 4.5 m
 - 3. Soffit formwork to slabs
 - 4. Soffit formwork to beams

Question ID : 630680197243
Status : Answered
Chosen Option : 2

Q.39 In reinforced concrete members, torsion generally occurs in combination with:

- Ans
- 1. flexure and transverse shear
 - 2. shear bond and shear compression
 - 3. diagonal shear and shear bond
 - 4. punching shear and shear compression

Question ID : 630680197273
Status : Not Answered
Chosen Option : --

Q.40 If an upgrade of 2% is followed by a downgrade of 2%, and the rate of change of grade is 0.4% per 100 m, the length of the vertical curve will be:

- Ans
- 1. 1000 m
 - 2. 600 m
 - 3. 200 m
 - 4. 400 m

Question ID : 630680197222
Status : Answered
Chosen Option : 1

Q.41 Which of the following is independent of the properties of water with respect to permeability?

- Ans
- 1. Coefficient of hydraulic conductivity
 - 2. Coefficient of absolute permeability
 - 3. Coefficient of permeability
 - 4. Coefficient of percolation

Question ID : 630680197247
Status : Answered
Chosen Option : 2

Q.42 The water content of a soil sample can be determined by:

- Ans
- 1. pipette method
 - 2. hydrometer method
 - 3. pycnometer method
 - 4. one-point method

Question ID : 630680197245
Status : Answered
Chosen Option : 3

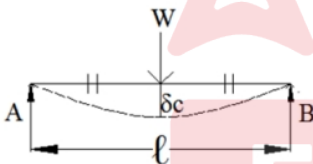
Q.43 Which of the following statements related to Tacheometric survey is correct?

1. Reduction diagrams are used for measuring corrections for horizontal and vertical distances directly.
2. Tacheometric tables are prepared for 1 m staff intercept when staff is held vertically and constants are 100 and 0.

- Ans
- 1. Statement 2 is correct
 - 2. Neither of the statements is correct
 - 3. Statement 1 is correct
 - 4. Both statements are correct

Question ID : 630680197226
Status : Answered
Chosen Option : 4

Q.44 A simply supported beam of span l carries a point load W at the centre (as shown in the given figure) and has a flexural rigidity of EI . What are the maximum slope and deflection of the beam?



Ans

1.

$$\text{max. slope} = \frac{Wl^3}{48EI} \text{ and max. deflection at centre} = \frac{Wl^2}{16EI}$$

2.

$$\text{max. slope} = \frac{Wl^4}{16EI} \text{ and max. deflection at centre} = \frac{Wl^2}{16EI}$$

3.

$$\text{max. slope} = \frac{Wl^2}{16EI} \text{ and max. deflection at centre} = \frac{Wl^3}{48EI}$$

4.

$$\text{max. slope} = \frac{Wl^2}{6EI} \text{ and max. deflection at centre} = \frac{Wl^3}{8EI}$$

Question ID : 630680197266
Status : Answered
Chosen Option : 3

Q.45 Cement that has _____ is the most suitable for achieving higher ultimate strength in a given application.

- Ans
- 1. a high C_3S content
 - 2. a high C_2S content
 - 3. a high C_3A content
 - 4. very little gypsum

Question ID : 630680197235
Status : Answered
Chosen Option : 2

Q.46 The phenomenon of producing higher stresses near the junction of a web and lower stresses at points away from the web of a steel beam is known as _____.

- Ans
- 1. shear lag
 - 2. moment of resistance
 - 3. elastic critical moment
 - 4. lateral buckling

Question ID : 630680197277
Status : Answered
Chosen Option : 1

Q.47 Identify whether the following statements related to concrete mix are correct or incorrect.

Statement 1: Nominal mix concrete may be used for concrete of M 25 or higher grade.

Statement 2: The mix shall be designed to produce the grade of concrete having the required workability and a characteristic strength.

- Ans
- 1. Both statements are correct
 - 2. Statement 1 is correct but Statement 2 is incorrect
 - 3. Statement 1 is incorrect but Statement 2 is correct
 - 4. Both statements are incorrect

Question ID : 630680197242
Status : Answered
Chosen Option : 3

Q.48 The maximum monthly demand of water per head is equal to:

- Ans
- 1. $2.7 \times$ (Annual average hourly demand of water per head)
 - 2. Annual average monthly demand of water
 - 3. $1.8 \times$ (Annual average daily demand of water)
 - 4. $1.28 \times$ (Annual average monthly demand of water)

Question ID : 630680197282
Status : Answered
Chosen Option : 1

Q.49 Which of the following are the components of water treatment systems? Select only the sewer appurtenances.

1. Manholes
2. Flushing tanks
3. Imhoff tank
4. Aeration tank
5. Storm regulators

- Ans**
- 1. 3, 4 and 5
 - 2. 1, 2 and 5
 - 3. 2, 3 and 4
 - 4. 1, 3 and 4

Question ID : 630680197285
Status : Answered
Chosen Option : 2

Q.50 According to IS : 456-2000, the maximum permissible limit of chlorides (as Cl) present in the water that is used for mixing concrete with embedded steel is:

- Ans**
- 1. 500 mg/l
 - 2. 2000 mg/l
 - 3. 200 mg/l
 - 4. 3000 mg/l

Question ID : 630680197236
Status : Answered
Chosen Option : 1

Q.51 Which of the following pairs is INCORRECTLY matched with respect to constituents of paint?

- Ans**
- 1. Base -> White lead
 - 2. Vehicle -> Lithophone
 - 3. Pigment -> Copper sulphate
 - 4. Solvent -> Naptha

Question ID : 630680197213
Status : Answered
Chosen Option : 2

Q.52 The ratio of lateral strain to longitudinal strain is called _____.

- Ans
- 1. Poisson's ratio
 - 2. Young's modulus of elasticity
 - 3. Bulk modulus
 - 4. Shear modulus

Question ID : 630680197227
Status : Answered
Chosen Option : 1

Q.53 What is the dimension of dynamic viscosity of fluid?

- Ans
- 1. MLT^{-2}
 - 2. $M^{-1}L^{-1}T^{-1}$
 - 3. $ML^{-1}T^{-2}$
 - 4. $ML^{-1}T^{-1}$

Question ID : 630680197253
Status : Answered
Chosen Option : 4

Q.54 Which of the following beams is an indeterminate beam?

- Ans
- 1. Cantilever beam
 - 2. Continuous beam
 - 3. One end hinge and other end roller beam
 - 4. Simply supported beam

Question ID : 630680197261
Status : Answered
Chosen Option : 2

Q.55 A simple Pitot tube can be used to measure which of the following quantities?

1. Static head
2. Datum head
3. Dynamic head
4. Friction head
5. Total head

- Ans**
- 1. 2, 3 and 5
 - 2. 1, 3 and 5
 - 3. 2, 3 and 4
 - 4. 1, 2 and 4

Question ID : 630680197255

Status : Answered

Chosen Option : 2

Q.56 Which of the following options related to bituminous materials manufacturing is correct?

1. Bitumen is a crystalline solid material derived from petroleum, by natural or refinery process.
2. Tar is produced by the destructive distillation of organic materials such as coal, oil, lignite and wool.

- Ans**
- 1. Statement 1 is correct but Statement 2 is incorrect
 - 2. Both statements are correct
 - 3. Both statements are incorrect
 - 4. Statement 1 is incorrect but Statement 2 is correct

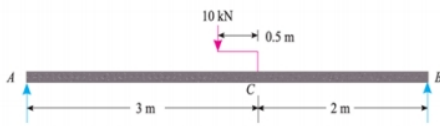
Question ID : 630680197214

Status : Answered

Chosen Option : 2

ENGINEERS

Q.57 A simply supported beam of 5 m carries a load of 100 kN on a bracket welded to the beam as shown in the given figure. Select the correct bending moment diagram of the beam.



Ans

- 1.
- 2.
- 3.
- 4.

Question ID : 630680197234

Status : Not Answered

Chosen Option : --

Q.58 The maximum hydraulic efficiency for a Pelton turbine with exit angle ϕ is given by:

Ans

1. $\left(\frac{1 + \cos\phi}{2}\right)$
2. $\left(1 - \frac{\cos\phi}{2}\right)$
3. $\left(1 + \frac{\cos\phi}{2}\right)$
4. $\left(\frac{1 - \cos\phi}{2}\right)$

Question ID : 630680197259

Status : Answered

Chosen Option : 1

Q.59 According to IS : 456-2000, what is the required slump value for placing the concrete in lightly reinforced sections in slabs, beams and column?

- Ans**
- 1. 75-100 mm
 - 2. 100-150 mm
 - 3. 10-25 mm
 - 4. 25-75 mm

Question ID : 630680197238

Status : Answered

Chosen Option : 4

Q.60 A 90° triangular weir is used to measure the discharge (Q) of a canal with the head of water H. The theoretical discharge is computed by:

- Ans**
- 1. $Q_{th} = \frac{8}{15} \tan \frac{\theta}{2} \sqrt{2gH^{\frac{5}{2}}}$
 - 2. $Q_{th} = \frac{8}{15} \tan \frac{\theta}{2} H^{\frac{5}{2}} \sqrt{2g}$
 - 3. $Q_{th} = \frac{8}{15} \tan \theta \sqrt{2gH}$
 - 4. $Q_{th} = \frac{8}{15} \tan \theta H^{\frac{5}{2}} \sqrt{2g}$

Question ID : 630680197258

Status : Answered

Chosen Option : 2

Q.61 Match the following possible failure modes of an axially loaded column with their correct occurrence.

Failure modes of column	Occurrence
1. Local buckling	A. Occurs by excessive deflection in the plane of the weaker principal axis
2. Squashing	B. Occurs by buckling of one or more individual plate elements
3. Overall flexural buckling	C. Occurs by twisting about the shear centre in the longitudinal axis
4. Flexural-torsional buckling	D. Occurs when the length is relatively small (stocky column)

- Ans**
- 1. 1-B; 2-A; 3-D; 4-C
 - 2. 1-C; 2-D; 3-A; 4-B
 - 3. 1-B; 2-D; 3-A; 4-C
 - 4. 1-B; 2-C; 3-A; 4-D

Question ID : 630680197279

Status : Answered

Chosen Option : 3

Q.62 In which type of failure of steel tension member, the failure of the member occurs along a path involving tension on one plane and shear on a perpendicular plane along the fasteners?

- Ans**
- 1. Gross section yielding
 - 2. Local web buckling
 - 3. Block shear failure
 - 4. Net section rupture

Question ID : 630680197276
Status : Answered
Chosen Option : 3

Q.63 Which of the following statements related to hydration of cement is/are correct?

1. Hydration of cement begins as soon as water comes in contact with the cement.
2. Hydration of Ordinary Portland Cement is an exothermic reaction.

- Ans**
- 1. Both statements are correct
 - 2. Statement 1 is incorrect but Statement 2 is correct
 - 3. Statement 1 is correct but Statement 2 is incorrect
 - 4. Both statements are incorrect

Question ID : 630680197237
Status : Answered
Chosen Option : 1

Q.64 What is the function of the chemical SO_3 present in Ordinary Portland cement?

- Ans**
- 1. Imparts colour and hardness
 - 2. Makes cement sound
 - 3. Gives strength
 - 4. Responsible for quick setting

Question ID : 630680197212
Status : Answered
Chosen Option : 2

Q.65 The addition of chlorine at intermediate points generally at service reservoirs and booster pumping stations in water supply distribution is called _____.

- Ans**
- 1. re-chlorination
 - 2. de-chlorination
 - 3. pre-chlorination
 - 4. post-chlorination

Question ID : 630680197288
Status : Answered
Chosen Option : 4

Q.66 According to IS : 10500-2012, the maximum permissible limit of total alkalinity as calcium carbonate present in drinking water in the absence of an alternate source of water is:

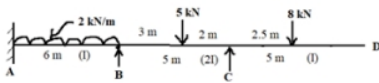
- Ans**
- 1. 1000 mg/l
 - 2. 600 mg/l
 - 3. 400 mg/l
 - 4. 200 mg/l

Question ID : 630680197280

Status : Answered

Chosen Option : 2

Q.67 The distribution factor of BC and CB of the continuous beam shown in the given figure are _____, respectively.



- Ans**
- 1. $DF_{BC} = 0.56$ and $DF_{CB} = 0.44$
 - 2. $DF_{BC} = 0.64$ and $DF_{CB} = 1$
 - 3. $DF_{BC} = 0.5$ and $DF_{CB} = 0.5$
 - 4. $DF_{BC} = 0.64$ and $DF_{CB} = 0.36$

Question ID : 630680197264

Status : Not Answered

Chosen Option : --

Q.68 Which of the following conditions of soils, the Vane shear test conducted in the laboratory to determine the shear strength is applicable?

- Ans**
- 1. Undrained shear strength of problematic soils
 - 2. Undrained shear strength of soft clays
 - 3. Drained shear strength of soft clays
 - 4. Drained shear strength of stiff clays

Question ID : 630680197250

Status : Answered

Chosen Option : 2

Q.69 For a simply supported beam, the restraint against torsional rotations at supports may be provided by:

1. Web of flange cleats
2. Vertical stiffeners
3. Lateral end frames

Which of the above mentioned points correctly completes the given statement?

- Ans**
- ✓ 1. 1 and 2
 - ✗ 2. 1, 2 and 3
 - ✗ 3. 1 and 3
 - ✗ 4. 2 and 3

Question ID : 630680197278

Status : Answered

Chosen Option : 2

Q.70 A survey is to be made with a chain or tape having its true length L and its incorrect length L' . Let the actual volume be V and measured volume be V' . Then, the correction for volume is given by:

- Ans**
- ✗ 1. $V = V' \left[\frac{L}{L'} \right]^2$
 - ✗ 2. $V = V' \left[\frac{L}{L'} \right]^3$
 - ✓ 3. $V = V' \left[\frac{L'}{L} \right]^3$
 - ✗ 4. $V = V' \left[\frac{L'}{L} \right]^2$

Question ID : 630680197221

Status : Answered

Chosen Option : 3

Q.71 A uniform rod of cross-sectional area A and length L is subjected to an axial pull P . What is the change in length of the rod? (Assume that Young's modulus of elasticity E remains the same throughout the length.)

- Ans**
- ✗ 1. $\frac{PE}{AL}$
 - ✗ 2. $\frac{P}{AEL}$
 - ✓ 3. $\frac{PL}{AE}$
 - ✗ 4. $\frac{PA}{LE}$

Question ID : 630680197228

Status : Answered

Chosen Option : 3

Q.72 Which of the following statements is correct in the case of a singly reinforced concrete beam?

Ans 1. Steel possesses initial stresses when embedded in concrete.

2. Compression is borne by the concrete.

3.

Elastic moduli for concrete and steel have different values within the limits of deformation of the beam.

4.

Plane sections transverse to the centre line of the beam before bending, remain plane after bending.

Question ID : 630680197270

Status : Answered

Chosen Option : 2

Q.73 The degree of saturation of a soil sample is defined as:

Ans 1.

the ratio of the volume of voids to the total volume in a soil mass

2.

the ratio of the volume of voids to the volume of solids in a given soil mass

3.

the ratio of the volume of water present in a given soil mass to the total volume of voids in it

4.

the ratio of the porosity to the volume of voids in a given soil sample

Question ID : 630680197244

Status : Answered

Chosen Option : 3

Q.74 The bars of nominal diameter 16 mm used in compression for an RCC work consists of M30 grade concrete for which design bond stress is 1.5 N/mm^2 . The stress in bars at design load is 50 N/mm^2 . What is the development length bars as per IS : 456-2000?

Ans 1. 105.82 mm

2. 112.55 mm

3. 100.5 mm

4. 108.5 mm

Question ID : 630680197269

Status : Answered

Chosen Option : 1

Q.75 The angles of a triangle lie between _____ to form a well-conditioned triangle in a chain survey.

Ans 1. 60° and 180°

2. 15° and 135°

3. 30° and 120°

4. 20° and 150°

Question ID : 630680197218

Status : Answered

Chosen Option : 3

Q.76 What should be the minimum sample size for the flakiness index test for aggregate?

- Ans
- 1. 50 pieces
 - 2. 200 pieces
 - 3. 100 pieces
 - 4. 300 pieces

Question ID : 630680197216
Status : Not Answered
Chosen Option : --

Q.77 When concrete surfaces are exposed to alternate wetting and drying, the exposure condition is called _____.

- Ans
- 1. extreme
 - 2. mild
 - 3. moderate
 - 4. severe

Question ID : 630680197240
Status : Answered
Chosen Option : 4

Q.78 When the available length is less than the required length of a tension member, _____ are provided.

- Ans
- 1. splices
 - 2. gusset plates
 - 3. lug angles
 - 4. column bases

Question ID : 630680197275
Status : Answered
Chosen Option : 1

Q.79 Which of the following types of pipes is NOT commonly used in water supply schemes?

- Ans
- 1. Steel cylindrical reinforced concrete pipes
 - 2. Cement concrete pipes
 - 3. Wrought iron pipe
 - 4. Steel pipe

Question ID : 630680197283
Status : Answered
Chosen Option : 4

Q.80 Match the following sewer components with their functions.

Types of sewer	Functions
1. Catch pits	A. Used to check the obstruction in the sewer
2. Flushing tanks	B. Used to collect stormwater from the roadside
3. Lamp holes	C. Used to collect grit, sand and debris
4. Gullies	D. Used to clean the sewer by removing blockages

- Ans
- 1. 1-A, 2-D, 3-C, 4-B
 - 2. 1-C, 2-D, 3-A, 4-B
 - 3. 1-C, 2-A, 3-D, 4-B
 - 4. 1-B, 2-D, 3-A, 4-C

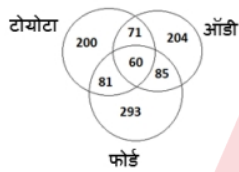
Question ID : 630680197287

Status : Answered

Chosen Option : 2

Section : Reasoning

Q.1 दिए गए आरेख का ध्यानपूर्वक अध्ययन कीजिए और नीचे दिए गए प्रश्न का उत्तर दीजिए। अलग-अलग वर्गों में संख्याएं कारों के विभिन्न ब्रांडों वाले लोगों की संख्याएं दर्शाती हैं।



जिनके पास ऑडी है, लेकिन फोर्ड नहीं है, उनके; और जिनके पास ऑडी और फोर्ड दोनों हैं, उनके; और जिनके पास केवल टोयोटा है, उनके बीच अनुपात कितना है?

- Ans
- 1. 204 : 141 : 200
 - 2. 275 : 145 : 200
 - 3. 204 : 145 : 200
 - 4. 275 : 141 : 200

Question ID : 630680197290

Status : Answered

Chosen Option : 2

Q.2 Select correct combination of mathematical signs that can sequentially replace the * signs and balance the given equation.

$$26 * 12 * 12 * 3 * 4 * 2 * 2$$

- Ans
- 1. -, +, x, =, ÷, +
 - 2. +, -, ÷, x, =, +
 - 3. -, +, ÷, x, =, +
 - 4. -, -, ÷, =, x, +

Question ID : 630680197298

Status : Answered

Chosen Option : 4

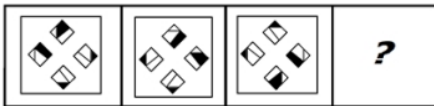
Q.3 If '+' means 'division', '-' means 'addition', 'x' means 'subtraction' and '÷' means 'multiplication', what will be the value of the following expression?

$$[(12 \times 7) - (4 \div 4)] + (3 - 4) \div 3$$

- Ans
- 1. 6
 - 2. 12
 - 3. 1
 - 4. 9

Question ID : 630680197297
Status : Answered
Chosen Option : 4

Q.4 Select the figure from among the given options that can replace the question mark (?) in the following series.



Ans

- 1.
- 2.
- 3.
- 4.

Question ID : 630680197294
Status : Answered
Chosen Option : 2

Q.5 In a certain code language, 'DEMAND' is coded as 'DFNBOD' and 'COTTON' is coded as 'CPUUPN'. How will 'DEALER' be coded in that language?

- Ans
- 1. EFBMFS
 - 2. DFBMFR
 - 3. DFBMGR
 - 4. DFBNFR

Question ID : 630680197291
Status : Answered
Chosen Option : 2

Q.6 पाँच मित्र साजीत, रोहन, बिक्षु, तोमर और मधु एक खेल के मैदान में एक बेंच पर बैठे हैं और उत्तर की ओर अभिमुख हैं (लेकिन जरूरी नहीं कि नामों वाले क्रम में ही हों)। साजीत, रोहन के ठीक बायें और बिक्षु के ठीक दायें बैठा है। मधु, रोहन के दायीं ओर कहीं बैठा है। तोमर, रोहन और मधु के ठीक बीच में है। सबसे दायें छोर पर कौन बैठा है?

- Ans
- 1. साजीत
 - 2. मधु
 - 3. रोहन
 - 4. तोमर

Question ID : 630680197289

Status : Answered

Chosen Option : 2

Q.7 यदि

'A * B' का अर्थ है कि 'A B की पत्नी है',
'A @ B' का अर्थ है कि 'A, B की मां है',
'A = B' का अर्थ है कि 'B, A के ससुर हैं',
'A & B' का अर्थ है कि 'A, B की मां की मां है',
'A # B' का अर्थ है कि 'A, B की बहन है' और
'A ^ B' का अर्थ है कि 'A, B के पिता का भाई है',
तो दिए गए व्यंजक में K, J से किस रूप में संबंधित है?
 $K \wedge I \# H * G = J$

- Ans
- 1. पति
 - 2. बहन
 - 3. पुत्र
 - 4. भाई

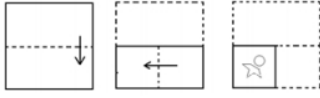
Question ID : 630680197292

Status : Answered

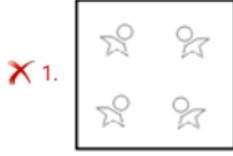
Chosen Option : 4

ENGINEERS

Q.8 The sequence of folding a piece of paper and the manner in which the folded paper is cut are shown in the following figures. How would this paper look when unfolded?



Ans



Question ID : 630680197295

Status : Answered

Chosen Option : 4

Q.9 उस विकल्प का चयन करें जो तीसरे पद से उसी प्रकार संबंधित है जिस प्रकार दूसरा पद पहले पद से संबंधित है। (शब्दों को सार्थक अंग्रेजी शब्द माना जाना चाहिए और शब्द में अक्षरों की संख्या/व्यंजनों/स्वरों की संख्या के आधार पर एक दूसरे से संबंधित नहीं होना चाहिए।)

ज्योतिष-विज्ञान (ASTROLOGY) : ग्रह (PLANETS) :: शरीरक्रिया-विज्ञान (PHYSIOLOGY) : ?

Ans ✓ 1. काया (BODY)

✗ 2. पुरुष (MAN)

✗ 3. अस्थि (BONE)

✗ 4. खोपड़ी (SKULL)

Question ID : 630680197293

Status : Answered

Chosen Option : 1

Q.10 Select the number from among the given options that can replace the question mark (?) in the following series.

135, 54, 27, 18, ?, 14

- Ans
- 1. 16
 - 2. 17
 - 3. 14
 - 4. 15

Question ID : 630680197296

Status : Answered

Chosen Option : 4

Section : Quantitative Aptitude

Q.1 रामू और सोमू किसी कार्य को क्रमशः 24 दिनों और 36 दिनों में पूरा कर सकते हैं। उन्होंने कार्य करना आरंभ किया परन्तु 6 दिनों के बाद रामू को कार्य छोड़ना पड़ा और सोमू ने अकेले ही शेष कार्य पूरा किया। पूरा कार्य कितने दिनों में पूर्ण किया गया?

- Ans
- 1. 27
 - 2. 29
 - 3. 31
 - 4. 21

Question ID : 630680197306

Status : Answered

Chosen Option : 1

Q.2 12 पुस्तकों का औसत मूल्य ₹250 है जबकि इनमें से 10 पुस्तकों का औसत मूल्य ₹215 है। शेष दो पुस्तकों में से, यदि एक पुस्तक का मूल्य दूसरी पुस्तक के मूल्य से 12.5% अधिक है, तो इन दोनों पुस्तकों में से प्रत्येक का मूल्य क्या है?

- Ans
- 1. ₹320, ₹360
 - 2. ₹400, ₹450
 - 3. ₹300, ₹337
 - 4. ₹240, ₹270

Question ID : 630680197302

Status : Answered

Chosen Option : 2

Q.3 एक आयत की लंबाई उसकी चौड़ाई की तीन गुनी है। यदि इसकी लंबाई में 7 cm की कमी की जाती है और चौड़ाई में 7 cm की वृद्धि की जाती है, तो आयत के क्षेत्रफल में 147 cm^2 की वृद्धि होती है। तो प्रारंभिक आयत की लंबाई क्या है?

- Ans
- 1. 33 cm
 - 2. 39 cm
 - 3. 42 cm
 - 4. 36 cm

Question ID : 630680197307
Status : Answered
Chosen Option : 3

Q.4 जब किसी उत्पाद की कीमत में 12% की कमी आई, तो बिक्री संख्या में 25% की वृद्धि हुई। कुल आय पर क्या प्रभाव पड़ा?

- Ans
- 1. 10%
 - 2. 12%
 - 3. 15%
 - 4. 13%

Question ID : 630680197303
Status : Answered
Chosen Option : 1

Q.5 एक फुटकर विक्रेता, एक थोक व्यापारी से 48 पेनों के अंकित मूल्य पर 60 पेन खरीदता है। यदि वह इन पेनों को 5% की छूट पर बेचता है, तो उसका लाभ प्रतिशत क्या है?

- Ans
- 1. 19.25%
 - 2. 17.50%
 - 3. 16.25%
 - 4. 18.75%

Question ID : 630680197304
Status : Answered
Chosen Option : 4

Q.6 एक कार एक निश्चित दूरी के पहले एक-तिहाई भाग को 40 km/h की चाल से, अगले एक-तिहाई भाग को 80 km/h की चाल से और अंतिम एक-तिहाई भाग को 100 km/h की चाल से तय करती है। पूरी यात्रा में कार की औसत चाल क्या है?

- Ans
- 1. $67\frac{11}{19}$ km/h
 - 2. $65\frac{9}{19}$ km/h
 - 3. $63\frac{3}{19}$ km/h
 - 4. $64\frac{17}{19}$ km/h

Question ID : 630680197305

Status : Answered

Chosen Option : 3

Q.7 संख्याओं 10 और 50 के बीच अभाज्य संख्याओं का औसत ज्ञात कीजिए।

- Ans
- 1. $26\frac{9}{11}$
 - 2. $27\frac{5}{11}$
 - 3. $29\frac{2}{11}$
 - 4. $28\frac{3}{11}$

Question ID : 630680197301

Status : Answered

Chosen Option : 4

Q.8 यदि 28 cm ऊँचाई वाले बेलन का वक्र पृष्ठीय क्षेत्रफल 2640 cm^2 है, तो इसका आयतन क्या होगा?

- Ans
- 1. $21,200\text{ cm}^3$
 - 2. $22,500\text{ cm}^3$
 - 3. $20,100\text{ cm}^3$
 - 4. $19,800\text{ cm}^3$

Question ID : 630680197308

Status : Answered

Chosen Option : 4

Q.9 If $11^{x-1} + 11^{x+1} = 14762$, then the value of x is:

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

Question ID : 630680197299
Status : Answered
Chosen Option : 4

Q.10 तीन संख्याएँ 2 : 3 : 4 के अनुपात में हैं। यदि उनका योग 549 हो, तो उनका एचसीएफ (HCF) क्या होगा?

- Ans
- 1. 73
 - 2. 59
 - 3. 47
 - 4. 61

Question ID : 630680197300
Status : Answered
Chosen Option : 4

Section : General Awareness

Q.1 केंद्रीय बजट 2022-23 के अनुसार वित्तीय वर्ष 2022-23 के लिए अनुमानित प्रभावी राजस्व घाटा कितना है?

- Ans
- 1. 3.8%
 - 2. 6.4%
 - 3. 2.6%
 - 4. 4.5%

Question ID : 630680197313
Status : Not Answered
Chosen Option : --

Q.2 नोकिया ने आईआईएससी (IISc) _____ में नेटवर्क रोबोटिक्स में नोकिया सेंटर ऑफ एक्सीलेंस स्थापित करने के लिए भारतीय विज्ञान संस्थान के साथ साझेदारी की है।

- Ans
- 1. दिल्ली
 - 2. बेंगलुरु
 - 3. मुंबई
 - 4. पुणे

Question ID : 630680197309
Status : Answered
Chosen Option : 2

Q.3 _____के रूप में जाना जाने वाला अभिवर्धित थाइराइड, वयस्कों में आयोडीन की कमी के कारण प्रदर्शित होने वाली सबसे सामान्य अभिव्यक्ति है।

- Ans
- 1. हाशिमोटो थायराइडिटिस (Hashimoto's Thyroiditis)
 - 2. अवटुवामनता (cretinism)
 - 3. घेंघे (goitre)
 - 4. ग्रेव्स रोग (Graves' Disease)

Question ID : 630680197315
Status : Not Answered
Chosen Option : --

Q.4 सिंधु घाटी की सबसे प्रसिद्ध शिल्पकृतियों में से एक लगभग चार इंच ऊँची, तांबे की नृत्य करती लड़की की मूर्ति है, जो _____ में पाई गई थी?

- Ans
- 1. राखीगढ़ी
 - 2. लोथल
 - 3. मोहन जोदड़ो
 - 4. कालीबंगा

Question ID : 630680197311
Status : Not Answered
Chosen Option : --

Q.5 प्रार्थना समाज की स्थापना _____ हुई थी?

- Ans
- 1. 1867 में बम्बई में
 - 2. 1866 में कलकत्ता में
 - 3. 1875 में बम्बई में
 - 4. 1878 में कलकत्ता में

Question ID : 630680197310
Status : Not Answered
Chosen Option : --

Q.6 भारतीय संविधान के अनुसार राष्ट्रपति द्वारा कितने सदस्यों को मनोनीत किया जाता है?

- Ans
- 1. 12
 - 2. 20
 - 3. 15
 - 4. 10

Question ID : 630680197317
Status : Answered
Chosen Option : 1

Q.7 भारतीय वन राज्य रिपोर्ट, 2021 के अनुसार, कुल वन और वृक्ष आच्छादन, देश के भौगोलिक क्षेत्र का कितना प्रतिशत है?

- Ans
- 1. 21.71%
 - 2. 22.65%
 - 3. 25.45%
 - 4. 24.62%

Question ID : 630680197314
Status : Not Answered
Chosen Option : --

Q.8 अल्पकालीन सीमांत लागत (SMC) को _____ की प्रति इकाई कुल लागत में परिवर्तन के रूप में परिभाषित किया जाता है?

- Ans
- 1. निवेश में परिवर्तन
 - 2. निर्गम में परिवर्तन
 - 3. निर्गम
 - 4. समय

Question ID : 630680197312
Status : Not Answered
Chosen Option : --

Q.9 चारों ग्रैंड स्लैम में 80 मैच जीतने वाले इतिहास के पहले खिलाड़ी कौन बने?

- Ans
- 1. डैनिल मेदवेदेव (Daniil Medvedev)
 - 2. रॉजर फ़ेडरर (Roger Federer)
 - 3. राफेल नडाल (Rafael Nadal)
 - 4. नोवाक जोकोविच (Novak Djokovic)

Question ID : 630680197318
Status : Answered
Chosen Option : 1

Q.10 भारतीय संविधान के निम्नलिखित अनुच्छेदों में से कौन सा अनुच्छेद कुछ मामलों में कार्य, शिक्षा और सार्वजनिक सहायता के अधिकार से संबंधित है?

- Ans
- 1. अनुच्छेद 51
 - 2. अनुच्छेद 32
 - 3. अनुच्छेद 72
 - 4. अनुच्छेद 41

Question ID : 630680197316
Status : Answered
Chosen Option : 1

Section : English Language

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

It continued to rain _____ the night.

- Ans
- 1. during
 - 2. since
 - 3. within
 - 4. by

Question ID : 630680197320
Status : Answered
Chosen Option : 2

Q.2 Select the most appropriate option to substitute the underlined word in the given idiom. If there is no need to substitute it, select 'No substitution required'.

All bark and no fight

- Ans
- 1. fire
 - 2. pride
 - 3. bite
 - 4. No substitution required

Question ID : 630680197323
Status : Not Answered
Chosen Option : --

Q.3 Parts of the following sentence have been given as options. Select the option that contains an error in spelling. If you don't find any error, mark 'No error' as your answer.

We now have new evidence to corroborate the defendent's story.

- Ans
- 1. No error
 - 2. new evidence to corroborate
 - 3. the defendent's story
 - 4. We now have

Question ID : 630680197322
Status : Answered
Chosen Option : 4

Q.4 Select the most appropriate meaning of the given idiom.

At random

- Ans
- 1. At a distance
 - 2. In total confusion
 - 3. In a hap-hazard manner
 - 4. At the last moment

Question ID : 630680197324
Status : Answered
Chosen Option : 4

Q.5 Select the most appropriate synonym of the given word to fill in the blank.

Suspended

His surgery was _____ due to the rise in his sugar level.

- Ans
- 1. continued
 - 2. ended
 - 3. changed
 - 4. postponed

Question ID : 630680197321

Status : Answered

Chosen Option : 3

Q.6 Select the most appropriate option to fill in the blank.

What do you normally have for _____ breakfast?

- Ans
- 1. the
 - 2. a
 - 3. no article
 - 4. an

Question ID : 630680197319

Status : Answered

Chosen Option : 3

Q.7 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- A. The king brought fresh water and gave it to him.
- B. The man closed his eyes and lay quietly.
- C. The man felt better and asked for something to drink.
- D. Then, with the hermit's help he carried the wounded man into the hut and laid him on the bed.

- Ans
- 1. ACDB
 - 2. CBDA
 - 3. BCAD
 - 4. CADB

Question ID : 630680197325

Status : Answered

Chosen Option : 1

Comprehension:

Read the given passage and answer the questions that follow.

They say that the colour of revolution is red. Not always. Sometimes, it's blue. It was the summer of 1859 in Bengal when thousands of ryots (peasants) refused to grow indigo for the European planters (owners of land and indigo factories). It was a show of rage and undying resolve. It became one of the most remarkable peasant movements of Indian history. It came to be called the Neel Bidroha or the Indigo Revolt.

Indigo was being cultivated in Bengal since the end of the 18th century. It was practiced mainly in two forms, the Nij-abad and the Ryoti. In the Nij or 'own' system, the planter produced indigo on lands that he directly controlled. In the Ryoti cultivation, the ryots cultivated indigo on their own lands as part of a contract with the planters. Ryoti was the predominant form of indigo cultivation in Bengal. The ryots sowed indigo under a contract system. It extended to a period of either one, three to five or ten years. At the inception of the contract, the planter made an advance payment to the ryot to meet the expenses of cultivation. In return, the ryot agreed to cultivate indigo on his land. The system of indigo cultivation was inherently exploitative. Emerging in 1859 in the Nadia district, the Bidroha spread to in different districts of Bengal in the 1860s. The peasants attacked indigo factories with spears and swords. Planters who demanded rent were beaten. Even women participated by fighting with pots and pans. It was especially powerful in the Pabna district where the ryots vehemently refused to sow indigo.

SubQuestion No : 8

Q.8 Read the given sentences.

- A. The system of Ryoti in indigo plantation was such that it exploited the peasants.**
B. The peasants revolted against the Indigo planters and refused to sow indigo.

Select the correct option about these statements.

- Ans** 1. Both statements A and B are true but A does not explain the reason for B.
 2. Both statements A and B are true and A explains the reason for B.
 3. Statement A is true but statement B is false
 4. Statement A is false but statement B is true

Question ID : 630680197328

Status : Not Answered

Chosen Option : --

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Comprehension:

Read the given passage and answer the questions that follow.

They say that the colour of revolution is red. Not always. Sometimes, it's blue. It was the summer of 1859 in Bengal when thousands of ryots (peasants) refused to grow indigo for the European planters (owners of land and indigo factories). It was a show of rage and undying resolve. It became one of the most remarkable peasant movements of Indian history. It came to be called the Neel Bidroha or the Indigo Revolt.

Indigo was being cultivated in Bengal since the end of the 18th century. It was practiced mainly in two forms, the Nij-abad and the Ryoti. In the Nij or 'own' system, the planter produced indigo on lands that he directly controlled. In the Ryoti cultivation, the ryots cultivated indigo on their own lands as part of a contract with the planters. Ryoti was the predominant form of indigo cultivation in Bengal. The ryots sowed indigo under a contract system. It extended to a period of either one, three to five or ten years. At the inception of the contract, the planter made an advance payment to the ryot to meet the expenses of cultivation. In return, the ryot agreed to cultivate indigo on his land. The system of indigo cultivation was inherently exploitative. Emerging in 1859 in the Nadia district, the Bidroha spread to in different districts of Bengal in the 1860s. The peasants attacked indigo factories with spears and swords. Planters who demanded rent were beaten. Even women participated by fighting with pots and pans. It was especially powerful in the Pabna district where the ryots vehemently refused to sow indigo.

SubQuestion No : 9

Q.9 'Ryoti was the predominant form of indigo cultivation in Bengal'. The word 'predominant' means:

- Ans**
- 1. cheap
 - 2. normal
 - 3. conventional
 - 4. main

Question ID : 630680197329

Status : Not Answered

Chosen Option : --

Adda247

ENGINEERS

Comprehension:

Read the given passage and answer the questions that follow.

They say that the colour of revolution is red. Not always. Sometimes, it's blue. It was the summer of 1859 in Bengal when thousands of ryots (peasants) refused to grow indigo for the European planters (owners of land and indigo factories). It was a show of rage and undying resolve. It became one of the most remarkable peasant movements of Indian history. It came to be called the Neel Bidroha or the Indigo Revolt.

Indigo was being cultivated in Bengal since the end of the 18th century. It was practiced mainly in two forms, the Nij-abad and the Ryoti. In the Nij or 'own' system, the planter produced indigo on lands that he directly controlled. In the Ryoti cultivation, the ryots cultivated indigo on their own lands as part of a contract with the planters. Ryoti was the predominant form of indigo cultivation in Bengal. The ryots sowed indigo under a contract system. It extended to a period of either one, three to five or ten years. At the inception of the contract, the planter made an advance payment to the ryot to meet the expenses of cultivation. In return, the ryot agreed to cultivate indigo on his land. The system of indigo cultivation was inherently exploitative. Emerging in 1859 in the Nadia district, the Bidroha spread to in different districts of Bengal in the 1860s. The peasants attacked indigo factories with spears and swords. Planters who demanded rent were beaten. Even women participated by fighting with pots and pans. It was especially powerful in the Pabna district where the ryots vehemently refused to sow indigo.

SubQuestion No : 10

Q.10 What is the main theme of the passage?

- Ans**
- 1. Exploitation of Indigo farmers
 - 2. Indigo plantation in Bengal
 - 3. Ryoti system in Indigo cultivation
 - 4. Indigo revolt in Bengal

Question ID : 630680197327

Status : Answered

Chosen Option : 4

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