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	29/03/2023
	12:30 PM - 2:30 PM
	Junior Engineer (Civil)

Questions

Pitot tube can be used to measure which of the following quantities?

ad

head

c head

head

ad

and 4

and 5

and 5

and 4

Question ID : 630680197255

Status : Answered

Chosen Option : 2

Minimum grade of concrete that is used in the case of reinforced cement concrete when exposed to a sea

5

0

0

10

Question ID : 630680197241

Status : Marked For Review

Chosen Option : 2

Following statements is correct when the marine deposits are under a very large depth of water?

as high effective stress and high shear strength

as low effective stress and low shear strength

as high effective stress and low shear strength

as low effective stress and high shear strength

Question ID : 630680197248

Status : Answered

Chosen Option : 4

Effective slenderness ratio of steel members always in tension (other than pre-tensioned members) is

)

)

)

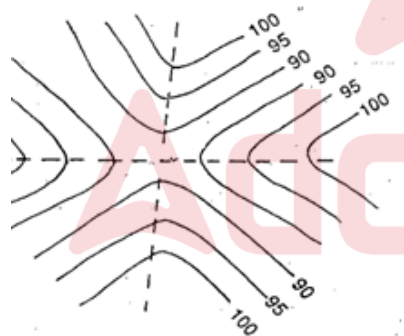
)

Question ID : 630680197274

Status : Answered

Chosen Option : 1

The contour map shown in the given figure.



pression

ge

ley

Idle

Question ID : 630680197220

Status : Answered

Chosen Option : 1

compressive strength of concrete for M25 grade concrete as per IS : 456-2000 is:

N/mm^2

N/mm^2

N/mm^2

N/mm^2

Question ID : 630680197239

Status : Answered

Chosen Option : 3

Angles of a triangle lie between _____ to form a well-conditioned triangle in a chain survey.

90° and 120°

90° and 135°

90° and 180°

90° and 150°

Question ID : 630680197218

Status : Answered

Chosen Option : 1

As per Central Pollution Control Board norms, the maximum permissible limit of 3 days biochemical oxygen demand (BOD) in wastewater effluent when discharged into an inland river or stream is _____.

100 mg/l

150 mg/l

200 mg/l

250 mg/l

Question ID : 630680197281

Status : Not Answered

Chosen Option : --

The process of adding chlorine at intermediate points generally at service reservoirs and booster pumping stations in water supply system is called _____.

intermediate chlorination

pre-chlorination

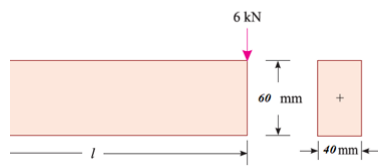
post-chlorination

de-chlorination

Question ID : 630680197288

Status : Marked For Review

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



mm

mm

mm

mm

Question ID : 630680197231

Status : Answered

Chosen Option : 4

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

Alkyd resin -> Naptha

White pigment -> White lead

Blue pigment -> Copper sulphate

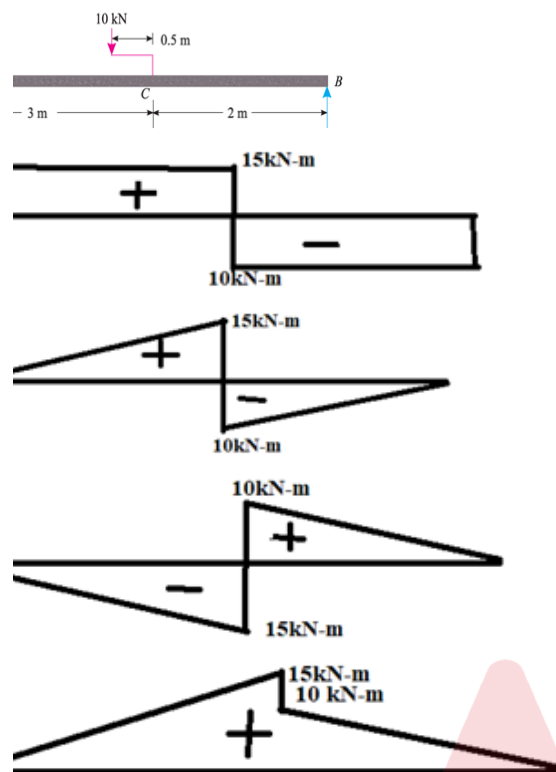
Black pigment -> Lithophone

Question ID : 630680197213

Status : Marked For Review

Chosen Option : 4

A horizontal beam of 5 m carries a load of 100 kN on a bracket welded to the beam as shown in the given figure. Draw the bending moment diagram of the beam.



Question ID : 630680197234

Status : Answered

Chosen Option : 4

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:

0 mg/l

100 mg/l

150 mg/l

200 mg/l

Question ID : 630680197280

Status : Answered

Chosen Option : 4

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

$$= V' \left[\frac{L}{L'} \right]^2$$

$$= V' \left[\frac{L'}{L} \right]^2$$

$$= V' \left[\frac{L'}{L} \right]^3$$

$$= V' \left[\frac{L}{L'} \right]^3$$

Question ID : 630680197221

Status : Answered

Chosen Option : 3

function of the chemical SO_3 present in Ordinary Portland cement?

parts colour and hardness

akes cement sound

possible for quick setting

es strength

Question ID : 630680197212

Status : Answered

Chosen Option : 2

lar lamina is immersed in water at a depth of 75 mm vertically, what is the depth of centre of pressure

.5 mm

75 mm

5 mm

0 mm

Question ID : 630680197254

Status : Answered

Chosen Option : 4

the following is the performance efficiency of slow sand filter?

removes about 98 to 99% bacteria.

removes turbidity to the extent of 50 PPM.

does not remove colour of raw water.

removes about 95% colloidal matter.

and 2

and 4

and 3

and 4

Question ID : 630680197286

Status : Answered

Chosen Option : 3

Which are the assumptions made in Terzaghi's theory of consolidation EXCEPT:

Darcy's law is valid throughout the consolidation process

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

Soil is fully saturated

Soil is homogeneous and isotropic

Question ID : 630680197249

Status : Answered

Chosen Option : 2

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

Stress concentration

Stress critical moment

Stress moment of resistance

Stress slenderness

Question ID : 630680197277

Status : Marked For Review

Chosen Option : 3

column is 150 mm and 100 mm thick and carries a load of 150 kN at an eccentricity of 10 mm in a plane perpendicular to the axis of the column. Find the maximum and minimum intensities of stress in the section.

mm

MPa and 10 MPa

MPa and 6 MPa

MPa and 8 MPa

MPa and 4 MPa

Question ID : 630680197233

Status : Answered

Chosen Option : 2

supported beam, the restraint against torsional rotations at supports may be provided by:

flange cleats

stiffeners

end frames

above mentioned points correctly completes the given statement?

and 3

and 2

and 3

and 3

Question ID : 630680197278

Status : Marked For Review

Chosen Option : 1

pe of levelling with its application.

lling	Process
levelling	A. When the differential levelling is done in order to connect a benchmark to the starting point of the alignment of project
ial levelling	B. When the difference of level between two points is determined by setting the level instrument midway between two points
ing	C. The process of taking levels transverse to the direction of longitudinal levelling
ational levelling	D. When the difference of elevation between the points is large and there are obstacles between the points

; 2-C; 3-A; 4-D

; 2-D; 3-A; 4-C

; 2-D; 3-A; 4-B

; 2-A; 3-D; 4-C

Question ID : 630680197223

Status : Marked For Review

Chosen Option : 4

the following objectives of seasoning of wood is INCORRECT?

the shrinkage and warping after placement in the structure

strength, durability and workability

its weight

difficult to paint

nd 3

nd 2

nd 3

nd 4

Question ID : 630680197211

Status : Answered

Chosen Option : 4

2000, what is the recommended value of effective length of RCC compression member of unsupported
fectively held in position and restrained against rotation at one end and at the other restrained against
ield in position?

l

l

l

inal diameter 16 mm used in compression for an RCC work consists of M30 grade concrete for which σ_{cs} 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 l_d ?

- 1.55 mm
- 1.82 mm
- 1.5 mm
- 1.5 mm

Question ID : 630680197269
Status : Not Answered
Chosen Option : --

Water content of a soil sample can be determined by:

- 1. Pycnometer method
- 2. Gravimetric method
- 3. Sand-pour method
- 4. Pycnometer method

Question ID : 630680197245
Status : Answered
Chosen Option : 4

Which of the following beams is an indeterminate beam?

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

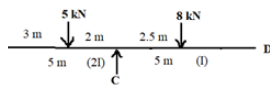
Question ID : 630680197261
Status : Answered
Chosen Option : 2

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

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

Question ID : 630680197247

1 factor of BC and CB of the continuous beam shown in the given figure are _____.



$$B_C = 0.64 \text{ and } DF_{CB} = 1$$

$$B_C = 0.64 \text{ and } DF_{CB} = 0.36$$

$$B_C = 0.56 \text{ and } DF_{CB} = 0.44$$

$$B_C = 0.5 \text{ and } DF_{CB} = 0.5$$

Question ID : 630680197264

Status : Marked For Review

Chosen Option : 2

weir is used to measure the discharge (Q) of a canal with the head of water H. The theoretical discharge

$$\begin{aligned} &= \frac{8}{15} \tan \theta \sqrt{2gH} \\ &= \frac{8}{15} \tan \frac{\theta}{2} \sqrt{2gH^{\frac{5}{2}}} \\ &= \frac{8}{15} \tan \frac{\theta}{2} H^{\frac{5}{2}} \sqrt{2g} \\ &= \frac{8}{15} \tan \theta H^{\frac{5}{2}} \sqrt{2g} \end{aligned}$$

Question ID : 630680197258

Status : Answered

Chosen Option : 4

d be the minimum sample size for the flakiness index test for aggregate?

pieces

0 pieces

1 pieces

pieces

Question ID : 630680197216

Status : Marked For Review

Chosen Option : 2

the following rock types belongs to the igneous rock group?

- le
- rble
- yolite
- ist

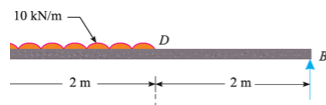
Question ID : 630680197210
Status : Marked For Review
Chosen Option : 4

imum monthly demand of water per head is equal to:

- $8 \times (\text{Annual average monthly demand of water})$
- $\times (\text{Annual average hourly demand of water per head})$
- ual average monthly demand of water
- $\times (\text{Annual average daily demand of water})$

Question ID : 630680197282
Status : Answered
Chosen Option : 4

ted beam carrying a uniformly distributed load of 10 kN/m is shown in the given figure. Determine the
1 shear force is equal to zero from point C.



- m
- m
- m
- m

Question ID : 630680197230
Status : Answered
Chosen Option : 3

: 456-2000, the maximum permissible limit of chlorides (as Cl) present in the water that is used for
with embedded steel is:

- 0 mg/l
-) mg/l
- 0 mg/l

Following conditions of soils, the Vane shear test conducted in the laboratory to determine the shear capacity?

- drained shear strength of soft clays
- undrained shear strength of soft clays
- undrained shear strength of stiff clays
- drained shear strength of problematic soils

Question ID : 630680197250
Status : Answered
Chosen Option : 1

For the following statements related to concrete mix are correct or incorrect.

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

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

- Statement 1 is incorrect but Statement 2 is correct
- Both statements are incorrect
- Statement 1 is correct but Statement 2 is incorrect
- Both statements are correct

Question ID : 630680197242
Status : Answered
Chosen Option : 1

What is the dimension of dynamic viscosity of fluid?

- $L^{-1}T^{-2}$
- $L^{-1}T^{-1}$
- T^{-2}
- $L^{-1}T^{-1}$

Question ID : 630680197253
Status : Answered
Chosen Option : 4

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

- $140^\circ 45'$
- $130^\circ 15'$
- $140^\circ 45'$
- $130^\circ 15'$

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

$$\sqrt{2}$$

Question ID : 630680197260

Status : Answered

Chosen Option : 1

: 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 beam midway between the lateral restraints).

a) or $\frac{250b^2}{d}$ whichever is less

b) or $\frac{100d^2}{b}$ whichever is less

c) or $\frac{100b^2}{d}$ whichever is less

d) or $\frac{250d^2}{b}$ whichever is less

Question ID : 630680197268

Status : Answered

Chosen Option : 3

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. Bitumen is produced by the destructive distillation of organic materials such as coal, oil, lignite and wool.

3. Statement 1 is correct but Statement 2 is incorrect

4. Statement 1 is incorrect but Statement 2 is correct

5. Both statements are correct

6. Both statements are incorrect

Question ID : 630680197214

Status : Answered

Chosen Option : 2

am hydraulic efficiency for a Pelton turbine with exit angle ϕ is given by:

$$+ \frac{\cos \phi}{2}$$

$$+ \frac{\cos \phi}{2}$$

$$- \frac{\cos \phi}{2}$$

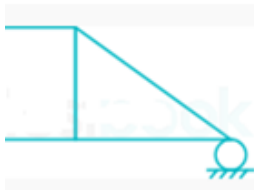
$$- \frac{\cos \phi}{2}$$

Question ID : 630680197259

Status : Answered

Chosen Option : 2

he type of truss shown in the given figure.



fect truss

ficient truss

ce truss

undant truss

Question ID : 630680197262

Status : Answered

Chosen Option : 4

urfaces are exposed to alternate wetting and drying, the exposure condition is called _____.

ere

derate

reme

d

Question ID : 630680197240

Status : Answered

Chosen Option : 1

ension specimen having a cross-sectional area of 100 mm^2 and section modulus of 200 mm^3 carries a
t an eccentricity of 10 mm, as shown in the given figure. What is the maximum stress induced in the

—

—

0 N/mm^2

0 N/mm^2

0 N/mm^2

0 N/mm^2

Question ID : 630680197267

Status : Answered

Chosen Option : 3

owing possible failure modes of an axially loaded column with their correct occurrence.

Mode of column	Occurrence
Flexing	A. Occurs by excessive deflection in the plane of the weaker principal axis
	B. Occurs by buckling of one or more individual plate elements
Global buckling	C. Occurs by twisting about the shear centre in the longitudinal axis
Local buckling	D. Occurs when the length is relatively small (stocky column)

1; 2-D; 3-A; 4-C

1; 2-C; 3-A; 4-D

1; 2-A; 3-D; 4-C

1; 2-D; 3-A; 4-B

Question ID : 630680197279

Status : Marked For Review

Chosen Option : 1

the following sewer components with their functions.

Sewer	Functions
Manholes	A. Used to check the obstruction in the sewer
Storm tanks	B. Used to collect stormwater from the roadside
Grates	C. Used to collect grit, sand and debris
Sludge	D. Used to clean the sewer by removing blockages

1, 2-D, 3-A, 4-C

1, 2-D, 3-C, 4-B

1, 2-A, 3-D, 4-B

Following statements related to Tacheometric survey is correct?

Stadia theodolites are used for measuring corrections for horizontal and vertical distances directly.

Stadia tables are prepared for 1 m staff intercept when staff is held vertically and constants are 100 and 0.

Statement 2 is correct

Neither of the statements is correct

Statement 1 is correct

Both statements are correct

Question ID : 630680197226

Status : Not Answered

Chosen Option : --

Following conditions should satisfy for the formation of supercritical flow in an open channel?

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

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

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

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 : 3

As per IS 4111-1986, the spacing of manholes above _____ may be allowed on straight runs for sewers having diameter 900 to 1500 mm.

10 to 300 m

10 to 100 m

10 to 150 m

10 to 200 m

Question ID : 630680197284

Status : Not Answered

Chosen Option : --

As per IS 456-2000, what is the required slump value for placing the concrete in lightly reinforced sections in vertical column?

150 mm

25 mm

100 mm

75 mm

able length is less than the required length of a tension member, _____ are provided.

angles

ices

mn bases

set plates

Question ID : 630680197275

Status : Answered

Chosen Option : 4

the following is NOT an objective of varnishing a surface?

render brilliancy to the painted surface

protect the painted surface from atmospheric actions

enhance the aesthetic appearance of a painted metal

brighten the appearance of the grain in wood

Question ID : 630680197215

Status : Marked For Review

Chosen Option : 1

s _____ is the most suitable for achieving higher ultimate strength in a given application.

y little gypsum

igh C_2S content

gh C_3S content

gh C_3A content

Question ID : 630680197235

Status : Answered

Chosen Option : 2

following statements is correct in the case of a singly reinforced concrete beam?

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

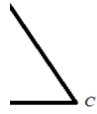
el possesses initial stresses when embedded in concrete.

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

mpression is borne by the concrete.

Question ID : 630680197270

angular section ABC has a base width of 80 mm and height of 60 mm. The moment of inertia about the



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

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

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

$$0 \times 10^3 \text{ mm}^4$$

Question ID : 630680197229

Status : Answered

Chosen Option : 3

of lateral strain to longitudinal strain is called _____.

ing's modulus of elasticity

k modulus

.sson's ratio

ar modulus

Question ID : 630680197227

Status : Answered

Chosen Option : 3

angular section having a base width of 100 mm and height of 150 mm is subjected to a shear force of _____ value of the maximum shear stress.

1Pa

1Pa

1Pa

1Pa

Question ID : 630680197232

Status : Answered

Chosen Option : 4

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

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

(b) The charge in the main line is not equal to the sum of the discharges in each of the parallel pipes.

(c) The loss of head in each parallel pipe is different.

(d) The charge 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

Which of the following instruments in which the telescope can be revolved through a complete revolution in a vertical plane is called

(a) Transit theodolite

(b) Non-transit theodolite

(c) Automatic level

(d) Non-levelling theodolite

Question ID : 630680197225

Status : Marked For Review

Chosen Option : 2

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

(a) Castigliano's energy theorem

(b) Betti's reciprocal theorem

(c) Castigliano's theorem

(d) Mohr's theorem

Question ID : 630680197263

Status : Answered

Chosen Option : 3

What is the depth of 'frog' in a standard modular burnt clay brick?

(a) 10 mm to 30 mm

(b) 5 mm to 10 mm

(c) 10 mm to 20 mm

(d) 15 mm to 40 mm

Question ID : 630680197209

id limit of 25% and a flow index of 12%. If the plastic limit is 15%, determine the toughness index.

55%

55%

33%

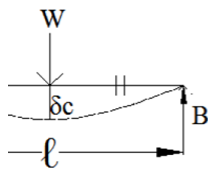
56%

Question ID : 630680197251

Status : Answered

Chosen Option : 3

ted beam of span l carries a point load W at the centre (as shown in the given figure) and has a flexural
hat are the maximum slope and deflection of the beam?



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

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

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

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

Question ID : 630680197266

Status : Answered

Chosen Option : 1

ed concrete members, torsion generally occurs in combination with:

gonal shear and shear bond

cure and transverse shear

ching shear and shear compression

ar bond and shear compression

Question ID : 630680197273

Time of formwork requires a maximum stripping time of 14 days?

Time for fit formwork to slabs

Time for fit formwork to beams spanning over 6 m

Time for fit formwork to beams

Time for fit formwork to slabs spanning over 4.5 m

Question ID : 630680197243

Status : Answered

Chosen Option : 4

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

1. Manholes

2. Stormwater tanks

3. Sewer tanks

4. Sewer tanks

5. Sewer tanks

6. Sewer tanks and 5

7. Sewer tanks and 5

8. Sewer tanks and 4

9. Sewer tanks and 4

Question ID : 630680197285

Status : Answered

Chosen Option : 2

Which of the following is not a method of plane table method does the given problem belong to?

1. To locate a new station point using two-point at a place in order to locate missing details

2. To locate a new station point using two-point at a place in order to locate missing details

3. To locate a new station point using two-point at a place in order to locate missing details

4. To locate a new station point using two-point at a place in order to locate missing details

5. To locate a new station point using two-point at a place in order to locate missing details

Question ID : 630680197224

Status : Answered

Chosen Option : 3

shear failure does the failure surface NOT extend up to the ground surface when a strip footing rests on soft clay?

Terzaghi's failure

punching shear failure

general shear failure

local shear failure

Question ID : 630680197252

Status : Answered

Chosen Option : 4

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.

3. Both statements are incorrect

4. Statement 1 is incorrect but Statement 2 is correct

5. Both statements are correct

6. Statement 1 is correct but Statement 2 is incorrect

Question ID : 630680197237

Status : Marked For Review

Chosen Option : 3

Which of the following is not a failure mode of a steel tension member, the failure of the member occurs along a path involving tension on one side and compression on the other, perpendicular to the fasteners?

1. Block shear failure

2. Local web buckling

3. Gross section yielding

4. Net section rupture

Question ID : 630680197276

Status : Not Answered

Chosen Option : --

following statements related to manufacturing of the given materials is correct?

manufactured by fractional distillation of crude petroleum.

manufactured by fractional distillation of organic materials.

Statement 1 is correct but Statement 2 is incorrect

Both statements are incorrect

Statement 1 is incorrect but Statement 2 is correct

Both statements are correct

Question ID : 630680197217

Status : Answered

Chosen Option : 2

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

Cast iron pipe

Steel cylindrical reinforced concrete pipes

Asbestos pipe

Precast concrete pipes

Question ID : 630680197283

Status : Answered

Chosen Option : 1

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

Dead load + wind or earthquake load

Dead load + imposed load + wind + earthquake load

Dead load + imposed load

Dead load + erection load.

Question ID : 630680197271

Status : Answered

Chosen Option : 2

The degree of saturation of a soil sample is defined as:

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

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

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

A bar of cross-sectional area A and length L is subjected to an axial pull P . What is the change in length of the bar if Young's modulus of elasticity E remains the same throughout the length.)

$\frac{\Delta L}{L}$

Question ID : 630680197228

Status : Answered

Chosen Option : 3

A road 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:

100 m

200 m

300 m

400 m

Question ID : 630680197222

Status : Answered

Chosen Option : 1

In the Unified Soil classification system, coarse-grained soils comprise:

clay, silt, sand and gravel

clay, silt, sand and gravel

clay, silt, sand and gravel

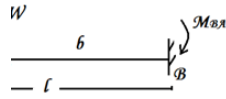
clay, silt, sand and gravel

Question ID : 630680197246

Status : Answered

Chosen Option : 4

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



$$M_A = \frac{Wab^2}{l} \text{ and } M_{BA} = \frac{Wba^2}{l}$$

$$M_A = \frac{Wab^3}{l^2} \text{ and } M_{BA} = \frac{Wba^3}{l^2}$$

$$M_B = \frac{Wab^2}{l^2} \text{ and } M_{BA} = \frac{Wba^2}{l^2}$$

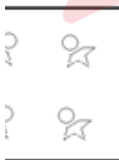
$$M_A = \frac{Wab^2}{2l^2} \text{ and } M_{BA} = \frac{Wba^2}{2l^2}$$

Question ID : 630680197265

Status : Answered

Chosen Option : 3

When a piece of paper is folded and the manner in which the folded paper is cut are shown in the following figure, what would this paper look when unfolded?



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

FR

IFR

FS

GR

Question ID : 630680197291

Status : Answered

Chosen Option : 2

'A is the wife of B',
'A is the mother of B',
'B is the father-in-law of A',
'A is the mother of B's mother',
'A is the sister of B' and
'A is the brother of B's father',
related to J in the given expression?

J

er

and

Question ID : 630680197292

Status : Answered

Chosen Option : 1

Which combination of mathematical signs that can sequentially replace the * signs in the given equation.

$3 * 4 * 2 * 2$

, =, ÷, +

, ×, =, +

, =, ×, +

, ×, =, +

Question ID : 630680197298

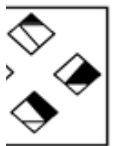
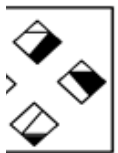
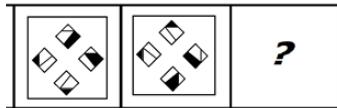
Status : Answered

Chosen Option : 3

Which number from among the given options that can replace the question mark (?) in the series.

8, ?, 14

Choose the option from among the given options that can replace the question mark (?) in the following series.



Question ID : 630680197294

Status : Answered

Chosen Option : 1

Choose the option that is related to the third term in the same way as the second term is related to the first term.

(Options must be considered as meaningful English words and must not be related to anything based on the number of letters/number of consonants/vowels in the word.)

PLANETS :: PHYSIOLOGY : ?

Question ID : 630680197293

Status : Answered

Chosen Option : 1

Division', '-' means 'addition', 'x' means 'subtraction' and '÷' means 'multiplication', what will be the value of the following expression?

$$÷ 4) + (3 - 4)] ÷ 3$$

Question ID : 630680197297

Status : Answered

Chosen Option : 4

Sajit, Rohan, Bikshu, Tomar and Madhu are sitting on a bench in a playground (but not necessarily in the same order). Sajit is to the immediate left of the immediate right of Bikshu. Madhu is somewhere to the right of Rohan. Exactly between Rohan and Madhu. Who is sitting at the rightmost end?

U

I

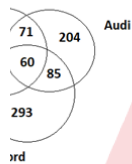
R

Question ID : 630680197289

Status : Answered

Chosen Option : 1

Study the diagram carefully and answer the question that follows. The numbers in different sections indicate the number of people with different brands of cars.



What is the ratio of the people who have Audi but not Ford to the people who have both Audi and Ford to the people who have Ford but not Audi?

141 : 200

145 : 200

141 : 200

145 : 200

Question ID : 630680197290

Status : Answered

Chosen Option : 2

Numbers are in the ratio 2:3:4. If their sum is 549, then their HCF is:

Question ID : 630680197300
Status : Answered
Chosen Option : 4

10 pens at the marked price of 48 pens from a wholesaler. If he sells these pens by giving a discount of 20%, his profit per cent?

50%

25%

25%

75%

Question ID : 630680197304
Status : Answered
Chosen Option : 4

The curved surface area of a cylinder of height 28 cm, then its volume is:

100 cm³

500 cm³

200 cm³

800 cm³

Question ID : 630680197308
Status : Answered
Chosen Option : 4

A rectangle is thrice its breadth. If its length is decreased by 7 cm and breadth is increased by 7 cm, the area is increased by 147 cm². Then the length of the initial rectangle is:

3 cm

21 cm

35 cm

28 cm

Question ID : 630680197307
Status : Answered

If a product was decreased by 12%, the number sold increased by 25%. What was the effect on the total

- ☐ 0
☐ 6
☒ 6
☐ 0

Question ID : 630680197303
 Status : Answered
 Chosen Option : 3

$+ 11^{x+1} = 14762$, then the value of x is:

Question ID : 630680197299
 Status : Answered
 Chosen Option : 2

can complete the work in 24 days and 36 days, respectively. They started doing the work but after 6 days leave and Somu alone completed the remaining work. The whole work was completed in how many

Question ID : 630680197306
 Status : Answered
 Chosen Option : 2

age of the prime numbers between the numbers 10 and 50 is:

- ☐ $\frac{3}{11}$
☐ $\frac{5}{11}$
☒ $\frac{9}{11}$
☐ $\frac{2}{11}$

first one-third of a certain distance at the speed of 40 km/h, the next one-third distance at the speed of
last one-third distance at the speed of 100 km/h. The average speed of the car for the whole journey is:

$$\frac{11}{19} \text{ km/h}$$

$$\frac{3}{19} \text{ km/h}$$

$$\frac{9}{19} \text{ km/h}$$

$$\frac{17}{19} \text{ km/h}$$

Question ID : 630680197305

Status : Answered

Chosen Option : 2

e of 12 books is ₹250 while the average price of 10 of these books is ₹215. Of the remaining two
e of one book is 12.5% more than the price of the other, what is the price of each of these two books?

0, ₹450

0, ₹270

0, ₹337

0, ₹360

Question ID : 630680197302

Status : Answered

Chosen Option : 1

areness

the Indian State of Forest Report, 2021, what is the total forest and tree cover
phical area of the country?

%

%

%

%

Question ID : 630680197314

Status : Not Answered

Chosen Option : --

the Union Budget 2022-23, what is the estimated Effective Revenue Deficit for
year 2022-23?

a Samaj was established in:

at Bombay

at Bombay

at Calcutta

at Calcutta

Question ID : 630680197310

Status : Not Answered

Chosen Option : --

ntered with the Indian Institute of Science to set up the Nokia Centre of networked robotics at IISc ____.

rai

aluru

Question ID : 630680197309

Status : Answered

Chosen Option : 4

st-known artefacts from the Indus Valley is the approximately four-inch-high, of a dancing girl which was found in:

njo-Daro

|

ingan

jarhi

Question ID : 630680197311

Status : Answered

Chosen Option : 1

marginal cost (SMC) is defined as the change in total cost per unit of:

t

je in output

e in input

Question ID : 630680197312

Status : Not Answered

Chosen Option : --

Following Articles of the Indian Constitution is related to the right to work, to
and to public assistance in certain cases?

⤵ 72

⤵ 51

⤵ 32

⤵ 41

Question ID : 630680197316

Status : Not Answered

Chosen Option : --

Who is the first player in history to win 80 matches in all four Grand Slams?

Federer

Medvedev

Nadal

⤵ Djokovic

Question ID : 630680197318

Status : Answered

Chosen Option : 4

According to the Indian Constitution, how many members are nominated by the President?

Question ID : 630680197317

Status : Marked For Review

Chosen Option : 1

Goitre is known as _____ is the most common manifestation of iodine deficiency in

children

;

Graves' Disease

Hashimoto's Thyroiditis

Question ID : 630680197315

Status : Answered

Chosen Option : 2

Language

Choose the most appropriate option to substitute the underlined word in the given idiom. If no option is appropriate to substitute it, select 'No substitution required'.

He to fight with the enemy.

No substitution required

Question ID : 630680197323
Status : Answered
Chosen Option : 4

Read the following sentences and rearrange them in the order to form a meaningful and coherent paragraph.

1. The hermit closed his eyes and lay quietly.
2. He brought fresh water and gave it to him.
3. He felt better and asked for something to drink.
4. With the hermit's help he carried the wounded man into the hut and laid him on the bed.

Question ID : 630680197325
Status : Answered
Chosen Option : 4

Choose the most appropriate option to fill in the blank.

He normally have for _____ breakfast?

No option is correct

Question ID : 630680197319
Status : Answered
Chosen Option : 2

Choose the most appropriate meaning of the given idiom.

At a distance

In a state of confusion

At the last moment

No option is correct

ist appropriate option to fill in the blank.

o rain _____ the night.

]

Question ID : 630680197320

Status : Answered

Chosen Option : 4

ollowing sentence have been given as options. Select the option that contains
elling. If you don't find any error, mark 'No error' as your answer.

new evidence to corroborate the defendent's story.

efendent's story

w have

vidence to corroborate

or

Question ID : 630680197322

Status : Marked For Review

Chosen Option : 3

ist appropriate synonym of the given word to fill in the blank.

'as _____ due to the rise in his sugar level.

|

ed

oned

ued

Question ID : 630680197321

Status : Answered

Chosen Option : 3

on:

n passage and answer the questions that follow.

the colour of revolution is red. Not always. Sometimes, it's blue. It was the 1859 in Bengal when thousands of ryots (peasants) refused to grow indigo for the planters (owners of land and indigo factories). It was a show of rage and undying spirit that became one of the most remarkable peasant movements of Indian history. It came to be known as the Neel Bidroha or the Indigo Revolt. Indigo was being cultivated in Bengal since the end of the 18th century. It was practiced in two forms, the Nij-abad and the Ryoti. In the Nij or 'own' system, the planter grew indigo on lands that he directly controlled. In the Ryoti cultivation, the ryots grew indigo on their own lands as part of a contract with the planters. Ryoti was the dominant form of indigo cultivation in Bengal. The ryots sowed indigo under a contract that lasted for 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 different districts of Bengal in the 1860s. The peasants attacked indigo factories and plantations with stones and swords. Planters who demanded rent were beaten. Even women participated in the protests with pots and pans. It was especially powerful in the Pabna district where the ryots refused to sow indigo.

No : 8

Question : Main theme of the passage?

☒ revolt in Bengal

☐ Nij-abad system in Indigo cultivation

☐ Ryoti cultivation of Indigo farmers

☐ Indigo plantation in Bengal

Question ID : 630680197327

Status : Answered

Chosen Option : 1

on:

Read the passage and answer the questions that follow.

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

Indigo was cultivated in Bengal since the end of the 18th century. It was practiced in two forms, the Nij-abad and the Ryoti. In the Nij or 'own' system, the planter grew indigo on lands that he directly controlled. In the Ryoti cultivation, the ryots grew indigo on their own lands as part of a contract with the planters. Ryoti was the most common form of indigo cultivation in Bengal. The ryots sowed indigo under a contract that lasted for 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 different districts of Bengal in the 1860s. The peasants attacked indigo factories and planters' houses. Planters who demanded rent were beaten. Even women participated in the protests with pots and pans. It was especially powerful in the Pabna district where the ryots refused to sow indigo.

No : 9

Read the sentences.

Statement A: Ryoti in indigo plantation was such that it exploited the peasants.
Statement B: The peasants revolted against the Indigo planters and refused to sow indigo.

Select the correct option about these statements.

Option A: Statement A is false but statement B is true

Option B: Both statements A and B are true but A does not explain the reason for B.

Option C: Statement A is true but statement B is false

Option D: Both statements A and B are true and A explains the reason for B.

Question ID : 630680197328

Status : Answered

Chosen Option : 4

on:

n passage and answer the questions that follow.

the colour of revolution is red. Not always. Sometimes, it's blue. It was the 1859 in Bengal when thousands of ryots (peasants) refused to grow indigo for the planters (owners of land and indigo factories). It was a show of rage and undying spirit, one of the most remarkable peasant movements of Indian history. It came to be known as the Neel Bidroha or the Indigo Revolt. Indigo was cultivated in Bengal since the end of the 18th century. It was practiced in two forms, the Nij-abad and the Ryoti. In the Nij or 'own' system, the planter grew indigo on lands that he directly controlled. In the Ryoti cultivation, the ryots grew 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 that lasted for 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 different districts of Bengal in the 1860s. The peasants attacked indigo factories and planters' houses. They used sticks and swords. Planters who demanded rent were beaten. Even women participated in the protests. It was especially powerful in the Pabna district where the ryots refused to sow indigo.

No : 10

Q : The predominant form of indigo cultivation in Bengal'. The word 'predominant'

Meaning :

Correct

Question ID : 630680197329

Status : Answered

Chosen Option : 4