

QID: 1 - Which one of the following treatment is used to make the timber fire resistance?

Options:

- 1) Abel's process
- 2) Empty cell process
- 3) Envelope treatment
- 4) Tarring

Correct Answer: Abel's process

QID: 2 - The dynamic modulus of elasticity of sample of concrete is compared in _____.

Options:

- 1) Compression test
- 2) Split test
- 3) Tension test
- 4) Ultrasonic pulse velocity test

Correct Answer: ultrasonic pulse velocity test

QID: 3 - Efflorescence in bricks causes due to _____.

Options:

- 1) Excessive burning of bricks
- 2) High content of silt in brick clay
- 3) High porosity of the bricks
- 4) Present of soluble salt in parent clay

Correct Answer: present of soluble salt in parent clay

QID: 4 - Which of the following compounds of Portland cement reacts immediately with the water and set early?

Options:

- 1) Dicalcium silicate
- 2) Tetracalcium aluminoferrite
- 3) Tricalcium aluminate
- 4) Tricalcium silicate

Correct Answer: Tricalcium aluminate

QID: 5 - In the concrete mix with proportions of its ingredient 1:3:6, the actual quantity of sand per unit volume of cement, if bulking of the sand is 15% is _____.

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Options:

- 1) 3
- 2) 3.45
- 3) 6
- 4) 4.5

Correct Answer: 3.45

QID: 6 - Which of the following is TRUE regarding stress-strain curve of concrete?

Options:

- 1) A straight line up to the failure.
- 2) Hyperbolic up to 0.002% strain value and then a straight line up to failure.
- 3) Parabolic up to 0.002% strain value and then a straight line up to failure.

4) Straight line up to 0.002% strain value and then parabolic up to failure.

Correct Answer: Parabolic up to 0.002% strain value and then a straight line up to failure.

QID: 7 - Which one of the following is used as a carrier in paint?

Options:

- 1) Almond oil
- 2) Linseed oil
- 3) Mustard oil
- 4) Olive oil

Correct Answer: Linseed oil

QID: 8 - Which of the following tests are used for testing of tiles?

1. Breaking strength test
2. Impact test
3. Transverse strength test
4. Water absorption test

Options:

- 1) 1 and 3 only
- 2) 1, 2 and 3 only
- 3) 1, 2 and 4 only
- 4) 1, 2, 3 and 4

Correct Answer: 1, 2, 3 and 4

QID: 9 - How many bricks are required for 1 cubic meter of brick masonry work?

Options:

- 1) 300
- 2) 500
- 3) 1000
- 4) 1500

Correct Answer: 500

QID: 10 - Which of the following mineral is responsible for the red colour in bricks?

Options:

- 1) Iron oxide
- 2) Lime
- 3) Magnesia
- 4) Silica

Correct Answer: Iron oxide

QID: 11 - What is the unit of measurement for steel reinforcement?

Options:

- 1) Number
- 2) Kilograms
- 3) Running meter
- 4) Quintal

Correct Answer: Quintal

QID: 12 - What is the weight (in kg) per meter length for 12 mm diameter steel bar?

Options:

- 1) 0.8
- 2) 0.89
- 3) 1.1
- 4) 1.4

Correct Answer: 0.89

QID: 13 - What percentage of the total cost is added in the cost of construction for contingencies?

Options:

- 1) 2%
- 2) 5%
- 3) 1%
- 4) 15%

Correct Answer: 5%

QID: 14 - What percentage of total cost is added to the schedule of rates of the public work department for over-head cost?

Options:

- 1) 10%
- 2) 15%
- 3) 18%
- 4) 21.5 %

Correct Answer: 21.5%

QID: 15 - For estimation of painting area of corrugated sheets, percentage increase in area above the plain area is _____.

Options:

- 1) 10%
- 2) 14%
- 3) 20%
- 4) 25%

Correct Answer: 14%

QID: 16 - Central line method for estimation is suitable for _____.

Options:

- 1) Building having large numbers of cross wall
- 2) Building having large numbers of junctions
- 3) Walls having different widths
- 4) Walls having same widths

Correct Answer: walls having same widths

QID: 17 - Deduction at the L-junction of wall for total length of the central line is _____.

Options:

- 1) Half the thickness of wall
- 2) No reduction
- 3) Thickness of wall
- 4) Twice the thickness of wall

Correct Answer: no reduction

QID: 18 - Calculate the quantity of the cement required in cubic meter for 10 square meters of cement plaster 12 mm thick using cement mortar of 1:6.

Options:

- 1) 0.015
- 2) 0.0175
- 3) 0.0205
- 4) 0.0325

Correct Answer: 0.0205

QID: 19 - Calculate the quantity of the earthworks in cubic meter for a canal

embankment of 100 m long having heights of 3 m and 5 m at the two extreme edges. Top widths of the embankment are 2 m and 4 m at the two extreme edges and side slope is 2: 1. Use trapezoidal method.

Options:

- 1) 3500
- 2) 4000
- 3) 4200
- 4) 4700

Correct Answer: 4700

QID: 20 - Calculate the primary estimate including contractor's profit in rupees for the building having a plinth area of 1,500 square meters and a rate of Rs. 2,000 per square meter.

Options:

- 1) 30,00,000
- 2) 31,50,000
- 3) 33,00,000
- 4) 35,00,000

Correct Answer: 33,00,000

QID: 21 - 10 divisions of vernier scale are equal to 11 divisions of a main scale of each 0.1 mm. What is the least count of the vernier scale?

Options:

- 1) 0.009
- 2) 0.01
- 3) 0.1
- 4) 1.1

Correct Answer: 0.01

QID: 22 - Which one of the following statements includes the principle of surveying?

Options:

- 1) Working from higher to lower level.
- 2) Working from lower to higher level.
- 3) Working from part to whole
- 4) Working from whole to part

Correct Answer: Working from whole to part

QID: 23 - Number of links in 20 m metric chain is _____.

Options:

- 1) 80
- 2) 100
- 3) 120
- 4) 150

Correct Answer: 100

QID: 24 - The hypotenuse allowance (in m) for 30 m long chain, if the slope is 1:10 is _____.

Options:

- 1) 0.1
- 2) 0.1 2
- 3) 0.15

4) 0.22

Correct Answer: 0.15

QID: 25 - What is the declination if magnetic meridian is towards the western side of the true meridian?

Options:

- 1) Either negative or positive
- 2) Negative
- 3) Positive
- 4) Zero

Correct Answer: Negative

QID: 26 - Correction of length due to reduction to mean sea level is _____.

Options:

- 1) Directly proportional to measured length.
- 2) Directly proportional to radius of the earth.
- 3) Inversely proportional to measured length
- 4) Inversely proportional to height above mean sea level

Correct Answer: directly proportional to measured length.

QID: 27 - How much refraction correction (in m) is required for a distance of 500 m?

Options:

- 1) 0.0028
- 2) 0.0056
- 3) 5.61
- 4) 2850

Correct Answer: 0.0028

QID: 28 - What is the purpose of conducting the resection method in the plane table surveying?

Options:

- 1) To determine the location of the instrument
- 2) To plot the details
- 3) To survey hilly region
- 4) To survey plain region

Correct Answer: To determine the location of the instrument

QID: 29 - What is the degree of the curve (in degree) for a radius of 573 m using chain of 20 m length?

Options:

- 1) 1
- 2) 2
- 3) 3
- 4) 5

Correct Answer: 2

QID: 30 - Which method of contouring is most suitable for hilly terrains?

Options:

- 1) Cross section method
- 2) Direct method
- 3) Square method

4) Tachometric method

Correct Answer: Cross section method

QID: 31 - The pore water pressure in the soil sample of consolidometer test is _____.

Options:

- 1) Maximum at bottom
- 2) Maximum at center
- 3) Maximum at top
- 4) Minimum at center

Correct Answer: maximum at center

QID: 32 - The clay deposit of thickness 10 cm and void ratio 0.5 undergoes settlement and now it's final void ratio is 0.2. The thickness (cm) of the settlement layer is _____.

Options:

- 1) 1
- 2) 1.5
- 3) 2
- 4) 2.5

Correct Answer: 2

QID: 33 - Which of the following represents the percentage limit of porosity of the compacted sand?

Options:

- 1) 5% to 15%
- 2) 15% to 30%
- 3) 30% to 40%
- 4) 40% to 50%

Correct Answer: 30% to 40%

QID: 34 - In the falling head permeability test, in the duration of 3 hours the initial head of 1000 mm is dropped to 350 mm. The diameter of the stand pipe is 0.5 cm. The length and diameter of the soil specimen are 20 cm and 10 cm respectively.

What is the coefficient of permeability (mm/s) of the soil?

Options:

- 1) 4.86×10^{-8}
- 2) 4.86×10^{-5}
- 3) 4.86×10^{-3}
- 4) 5.23×10^{-5}

Correct Answer:

4.86×10^{-5}

QID: 35 - Which of the following is **CORRECT** to maximize the efficiency of all reaction turbines?

Options:

- 1) Angle of absolute velocity vector at outlet is 90 degrees
- 2) Blade angle is 90 degrees at inlet
- 3) Blade angle is 90 degrees at outlet
- 4) Guide vane angle is 90 degrees

Correct Answer: Angle of absolute velocity vector at outlet is 90 degrees

QID: 36 –

A 1.2m wide rectangular channel of bed slope 0.0004 and manning's coefficient 0.01, carrying the discharge of $0.5 \text{ m}^3/\text{s}$. The normal depth of the channel is

Options:

- 1) 0.13
- 2) 0.32
- 3) 0.43
- 4) 0.5

Correct Answer: 0.5

QID: 37 - Which of the following statement is **CORRECT**?

Options:

- 1) Pumps connected in parallel are used to boost the head, whereas pump operating in series boosts the discharge.
- 2) Pump operating in series, boosts the head, whereas pump operating in parallel, boosts the discharge.
- 3) Pump either in parallel or series always boost only discharge.
- 4) Pump either in parallel or series always boost only head.

Correct Answer: Pump operating in series, boosts the head, whereas pump operating in parallel, boosts the discharge.

QID: 38 - Draft tube at the exit of a reaction turbine used for hydroelectric project is _____.

Options:

- 1) Above or below the water surface, depends on unit speed of the turbine
- 2) Always above the water surface
- 3) Always immersed in water
- 4) May either be below or above the water surface

Correct Answer: always immersed in water

QID: 39 - What is the depth of the center of pressure for the rectangular lamina which is vertically inside the water of height h ?

Options:

- 1) $h/3$
- 2) $h/4$
- 3) $2h/3$
- 4) $3h/2$

Correct Answer: $2h/3$

QID: 40 - In the hydel system, a forebay is used at the junction of _____.

Options:

- 1) Penstock and turbine
- 2) Power channel and penstock
- 3) Power channel and tail race channel
- 4) Tail race channel and penstock

Correct Answer: power channel and penstock

QID : 141 - The motion of outgoing water from the hole made at midpoint of completely filled open cylindrical tank with water is _____.

Options:

- 1) forced vortex
- 2) irrotational
- 3) rotational
- 4) turbulent

Correct Answer: forced vortex

QID : 142 - Which one is **CORRECT** about streamlined body?

Options:

- 1) Corners are rounded off.
- 2) Separation occurs in the farthest downstream part of the body.
- 3) Skin friction is zero.
- 4) Thickness of body is equal to $1/100$ of its length.

Correct Answer: Separation occurs in the farthest downstream part of the body.

QID: 43 - What is the specific speed of a centrifugal pump, which has a rated capacity of 44 cumec and a head of 36 m when operated at the speed of 725 rpm?

Options:

- 1) 45
- 2) 255
- 3) 327
- 4) 350

Correct Answer: 327

QID: 44 - On which of the following principle Bernoulli's equation is based?

Options:

- 1) Conservation of momentum
- 2) Conservation of energy
- 3) Conservation of mass
- 4) Archimedes principle

Correct Answer: Conservation of energy

QID: 45 - In an irrigated field, the net irrigation requirement is 15 cm, the application efficiency is 80% and water conveyance efficiency is 60%. What is the gross irrigation requirement (in cm)?

Options:

- 1) 11.25

- 2) 18.75
3) 25
4) 31 .25

Correct Answer: 31.25

QID: 46 - Available moisture is the difference in water content of soil between field capacity and _____.

Options:

- 1) gravitational water
2) permanent wilting point
3) saturation capacity
4) ultimate wilting point
Correct Answer: permanent wilting point

QID: 47 - Right of way is the summation of the width of _____.

Options:

- 1) carriage way and shoulder
2) carriage way, shoulder and road margins
3) carriage way and road margins
4) road margins and shoulder
Correct Answer: carriage way, shoulder and road margins

QID: 48 - Gradient on a highway is 1 in 20. Radius of the curve is 200 m. After grade compensation the grade to be provided should not be less than 4%. Calculate the grade compensation.

Options:

- 1) 0.38%
2) 1.15%
3) 4.63%
4) 5%
Correct Answer: 0.38%

QID: 49 - Which one of the following is most important parameter for the removal of discrete particles in design of continuous flow rectangular sedimentation tank?

Options:

- 1) Depth of tank
2) Length of tank
3) Surface overflow rate
4) Temperature of water to be treated
Correct Answer: Surface overflow rate

QID: 50 - The most efficient method to conserve energy in the form of oil and gases is _____.

Options:

- 1) Combusting
2) Fluidized-bed incineration
3) Incineration with heat recovery
4) Pyrolysis
Correct Answer: Pyrolysis

QID: 51 - Dead load comprises of:-

Options:

- 1) Permanently attached loads
2) Temporarily attached loads
3) Permanent as well as temporary loads

4) Snow load

Correct Answer: Permanently attached loads

QID: 52 - Which of the following statements is **true**?

- A. Impact loads are equal to the sum of the magnitude of the loads actually caused and the magnitude of the loads had they been dead loads.
B. Impact loads are equal to the difference between the above mentioned entities.

Options:

- 1) Only A
2) Only B
3) Both A and B
4) Neither A nor B
Correct Answer: Only B

QID: 53 - What will be the value of reduction factor R1 if value of At is given to be 500ft²?

Options:

- 1) 0.5
2) 0.6
3) 0.7
4) 0.8
Correct Answer: 0.7

QID: 54 - If we use a link support in a structural system, then how many unknowns would we have?

Options:

- 1) 0
2) 1
3) 2
4) None of these
Correct Answer: 1

QID: 56 - If all the reactions acting on a planar system are concurrent in nature, then the system is:-

Options:

- 1) Can't say
2) Essentially stable
3) Essentially unstable
4) None of these
Correct Answer: Essentially unstable

QID: 57 - In the following questions, j represent no. of joints and r represents no. of external forces.

If a structure has $2j - r$ no. of members, then it will be:-

Options:

- 1) Stable
2) Unstable
3) Depends upon structure
4) Depends upon magnitude of load
Correct Answer: Depends upon structure

QID: 58 - What is the function of portal in bridge trusses?

Options:

- 1) To resist lateral forces
 - 2) To resist horizontal forces
 - 3) To provide additional stability
 - 4) To allow thermal expansion
- Correct Answer:** To provide additional stability

QID: 59 - Which of the following statements is **true**?

A. Simple trusses consist entirely of triangle.
B. It can consist of any other shaped intermediate parts, as long as it is stable.

Options:

- 1) Only A
- 2) Only B
- 3) Both A and B
- 4) Neither A nor B

Correct Answer: Both A and B

QID: 60 - Given that J is no. of joints. B and R are no. of members and no. of reactions. If $B = 5$, $R = 3$ and $J = 4$, then the truss is:-

Options:

- 1) Statically determinate
- 2) Statically indeterminate
- 3) Stable
- 4) Unstable

Correct Answer: Statically determinate

QID: 61 - Which of the following is most common alternative to cement in concrete?

Options:

- 1) Slag
- 2) Fly ash
- 3) Asphalt
- 4) Lime

Correct Answer: Asphalt

QID: 62 - _____ is added to make white concrete.

Options:

- 1) Fly ash
- 2) Meta kaolin
- 3) Rise husk
- 4) Pigments

Correct Answer: Metakaolin

QID: 63 - Which process comes after batching in manufacture process of concrete?

Options:

- 1) Transportation
- 2) Placing
- 3) Mixing
- 4) Compacting

Correct Answer: Mixing

QID: 64 - In small works, concrete is transported using:

Options:

- 1) Conveyer belts
- 2) Pumps

- 3) Pans
- 4) Buckets

Correct Answer: Pans

QID: 65 - Steam curing of concrete is adopted for:

Options:

- 1) Precast structures
- 2) Columns
- 3) Beams
- 4) Walls

Correct Answer: Precast structures

QID: 66 - How does the strength of concrete differ with age of concrete?

Options:

- 1) Increases
- 2) Decreases
- 3) No effect
- 4) Increases, then decreases

Correct Answer: Increases

QID: 67 - Bleeding is good to an extent if it occurs when concrete is:

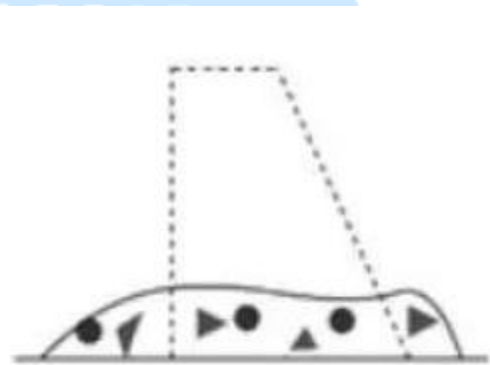
Options:

- 1) Transported
- 2) Mixed
- 3) Plastic
- 4) Place d

Correct Answer: Placed

QID: 68 -

The figure given below represents:



Options:

- 1) Low slump of concrete
- 2) Normal slump of concrete
- 3) Shear slump of concrete
- 4) Collapse slump of concrete

Correct Answer: Collapse slump of concrete

QID: 69 - The size of commonly used specimen for compression test of concrete is:

Options:

- 1) 50×30 mm
- 2) 150×150×150 mm
- 3) 150×50×50 mm
- 4) 150×150 mm

Correct Answer: 150×150×150 mm

QID: 70 - _____ is used to ensure that the thickness of plastering is uniform.

Options:

- 1) Bull point
- 2) Pivot point
- 3) Bull mark
- 4) Bench mark

Correct Answer: Bull mark

QID: 71 - _____ are used to press mortar and spread it uniformly.

Options:

- 1) Trowel
- 2) Aluminium rod
- 3) Floats
- 4) Brush

Correct Answer: Floats

QID: 72 - The ratio of the allowable bond stress in deformed bars to that of plain bars is about:-

Options:

- 1) 1.2
- 2) 1.3
- 3) 1.8
- 4) None of these

Correct Answer: None of these

QID: 73 - For which of the following grades ordinary concrete is not used?

Options:

- 1) M100
- 2) M400
- 3) M200
- 4) M250

Correct Answer: M400

QID: 74 - The ratio of various ingredients (cement, sand, aggregates) in concrete of grade M 200 is:

- A. 1:2:4
- B. 1:3:6
- C. 1: 1.5: 3
- D. 1:1:2

Options:

- 1) Only A
- 2) Only B
- 3) Both A and B
- 4) None of these

Correct Answer: None of these

QID: 75 - What do we need to do while designing an air entrained concrete?

Options:

- 1) Water cement ratio is to be reduced
- 2) Proportion of aggregates is to be reduced
- 3) An allowance for the en trained air is made
- 4) All option are correct

Correct Answer: All option are correct

QID: 76 - If the effective plan area of a warehouse is 54 sq. m, and maximum height

of piles permitted is 270 cm, then what is the number of cement bags that can be stored?

Options:

- 1) 200
- 2) 2000
- 3) 24000
- 4) 2700

Correct Answer: 2700

QID: 77 - Which of the following is the results of proper batching of concrete?

- A. Economy
- B. Durability
- C. Workability
- D. Strength

Options:

- 1) A and B Only
- 2) A, B, and C Only
- 3) A and D only
- 4) A, B, C and D

Correct Answer: A, B, C and D

QID: 78 - The process of mixing, transporting, placing and compacting concrete using Ordinary Portland cement should not take more than how much time?

Options:

- 1) 30 minutes
- 2) 40 minutes
- 3) 75 minutes
- 4) None of these

Correct Answer: 30 minutes

QID: 79 - PSC stands for:

Options:

- 1) Post-Stressed Concrete
- 2) Post-Strained Concrete
- 3) Pre-Stressed Concrete
- 4) Pre-strained Concrete

Correct Answer: Pre-Stressed Concrete

QID: 80 - Which of the below structure doesn't require Pre Stressed Concrete?

Options:

- 1) Bridge
- 2) Arch
- 3) Dam
- 4) Silos

Correct Answer: Arch

QID: 81 - Which of the following is the minimum thickness of a flat slab that is taken into consideration?

Options:

- 1) 13 cm
- 2) L/32 for end panels without drops
- 3) L/36 for end panels without drops
- 4) All option are correct

Correct Answer: All option are correct

QID: 82 –

If W is the load on a circular slab of radius R , the maximum circumferential moment at the center of the slab is

A] $\frac{WR^2}{16}$

B] $\frac{2WR^2}{16}$

C] $\frac{3WR^2}{16}$

Options:

- 1) A Only
- 2) B Only
- 3) C Only
- 4) Zero

Correct Answer: C Only

QID: 83 - The ratio of the breadth to effective depth of a beam is kept

Options:

- 1) 0.25
- 2) 0.5
- 3) 0.7
- 4) 0.75

Correct Answer: 0.5

QID: 84 - A ribbed slab is provided for which of the following?

Options:

- 1) A plain ceiling
- 2) Thermal insulation
- 3) Acoustic insulation
- 4) All option are correct

Correct Answer: All option are correct

QID: 85 - The thickness of the flange of a Tee beam of a ribbed slab is assumed as

Options:

- 1) Width of the rib
- 2) Depth of the rib
- 3) Thickness of the concrete topping
- 4) Half the thickness of the rib

Correct Answer: thickness of the concrete topping

QID: 86 - Which of the following statements is true?

Options:

- 1) A pile is a slender member which transfers the load through its lower end on a strong strata
- 2) A pile is a slender member which transfers its load to the surrounding soil
- 3) A pile is a slender member which transfers its load by friction

4) A pile is a cylindrical body of concrete which transfer s the load at a depth greater than its width

Correct Answer: A pile is a slender member which transfers its load to the surrounding soil

QID: 87 - According to I.S. 456-1978, the thickness of reinforced concrete footing on piles at its edges is kept less than

Options:

- 1) 5 cm
- 2) 10 cm
- 3) 15 cm
- 4) 20 cm

Correct Answer: 15 cm

QID: 88 -

If q is the punching shear resistance per unit area a , is the side of a square footing for a column of side b , carrying a weight W including the weight of the footing, the depth (D) of the footing from punching shear consideration is

A] $D = \frac{W(a-b)}{4a^2bq}$

B] $D = \frac{W(a^2-b^2)}{4a^2bq}$

C] $D = \frac{W(a^2-b^2)}{8a^2bq}$

D] $D = \frac{W(a^2-b^2)}{4abq}$

Options:

- 1) A Only
- 2) B Only
- 3) C Only
- 4) D Only

Correct Answer: B Only

QID: 89 -

The tangential component of stress on an plane inclined θ° to the direction of the force, may be obtained by multiplying the normal stress by

A] $\sin \theta$

B] $\cos \theta$

C] $\tan \theta$

D] $\sin^2 \theta$

Options:

- 1) A Only
- 2) B Only
- 3) C Only
- 4) D Only

Correct Answer: D Only

QID: 90 - Shear strain energy theory for the failure of a material at elastic limit is due to

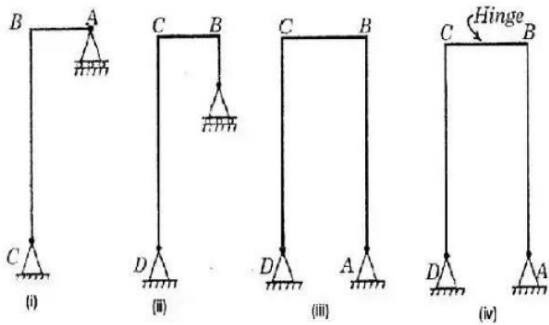
Options:

- 1) Rankin e
- 2) Guest or Trecas
- 3) St.Venan t
- 4) Von Mises

Correct Answer: Von Mises

QID: 91 –

Pick up the indeterminate structure from those shown in the figure given below.



Options:

- 1) Figure (i)
- 2) Figure (ii)
- 3) Figure (iii)
- 4) Figure (iv)

Correct Answer: Figure (iii)

QID: 92 - Beams composed of more than one material, rigidly connected together so as to behave as one piece, are known as

Options:

- 1) Compound beams
- 2) Indeterminate beams
- 3) Determinate beams
- 4) Composite beams

Correct Answer: Composite beams

QID: 93 - Poisson's ratio is μ defined as the ratio of

Options:

- 1) Axial strain to transverse strain
- 2) Axial strain to shear strain
- 3) Shear strain to axial strain
- 4) None of these

Correct Answer: None of these

QID: 94 - Among the following identify the dimensionless quantity.

Options:

- 1) Shear force
- 2) Stress
- 3) Strain
- 4) Modulus of elasticity

Correct Answer: Strain

QID: 95 - Identify the correct statement.

Options:

- 1) Hooke's law is valid up to Elastic limit
- 2) Hooke's law is valid up to Yield point

3) Hooke's law is valid up to Limit of proportionality

4) Hooke's law is valid up to Limit of proportionality

Correct Answer: Hooke's law is valid up to Limit of proportionality

QID: 96 - For an isotropic, homogeneous and elastic material obeying Hook's law, number of independent elastic constants is

Options:

- 1) 3
- 2) 1
- 3) 9
- 4) None of these

Correct Answer: None of these

QID: 97 - The angle between the principle plane and the plane of maximum shear is

Options:

- 1) 90 degree
- 2) 135 degree
- 3) 60 degree
- 4) None of these

Correct Answer: None of these

QID: 98 - The state of pure shear stress is produced by

Options:

- 1) Tension in one direction and equal compression in perpendicular direction
- 2) Equal tension in two directions at right angles
- 3) Equal compression in two directions at right angles
- 4) None of these

Correct Answer: tension in one direction and equal compression in perpendicular direction

QID: 99 - When the length of a tension member is too long

Options:

- 1) A wire rope is used
- 2) A rod is used
- 3) A bar is used
- 4) A single angle is used

Correct Answer: a bar is used

QID: 100 - The allowable stress in axial tension is generally kept less if thickness of the member is more than

Options:

- 1) 10 mm
- 2) 12 mm
- 3) 15 mm
- 4) 20 mm

Correct Answer: 20 mm

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