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- Q : 1) The covered area of a proposed building is 150 m² and it includes a rear courtyard of 5 m \times 4m. It the prevailing plinth area rate for similar building is Rs 1250/m², what is its cost (in Rs)?
- A: 187500
- **B: 212500**
- C: 162500
- D: 375000



- Q : 2) Calculate the cost (Rs.) of 100 mm thick brick lining of a septic tank of size 5m × 3m × 1.5m, If the rate of lining of Rs. 200 per square metre.
- A: 4500
- **B: 4800**
- **C: 5400**
- D: 7800



- Q : 3) For estimation of painted area of semi corrugated asbestos cement sheets, percentage increase in area above plain area is _____.
- A: 0.1
- **B: 0.14**
- C: 0.2
- D: 0.25



- Q:4) Which of the following rock is an igneous rock?
- A: Limestone
- **B: Marble**
- C: Rhyolite
- **D: Gneiss**



- Q : 5) Which of the following is an example of stratified rocks?
- A: Igneous rock
- **B: Burned clay brick**
- **C: Metamorphic rock**
- **D: Sedimentary rock**



- Q : 6) What must be the height of a cylindrical sample for split tensile strength test of stone, if the diameter is 50 mm?
- A: 100 mm
- B: 60 mm
- C: 50 mm
- D: 80 mm



- Q:7) The amount of calcium carbonate in lime stone is determined by which of the following tests?
- A: Heat test
- **B: Ball test**
- **C: Acid test**
- **D: Compressive strength test**



- Q:8) The approximate volume of stone required for 100 m³ of rubble stone masonry will be:
- A: 150 m³
- **B: 175 m³**
- **C: 125 m³**
- **D: 200 m³**



- Q:9) The shape of idealized stress-strain curve for concrete as prescribed by IS 456-2000 is
- A: Rectangular
- **B: Parabolic**
- **C: Rectangular-parabolic**
- **D: None of these**



- Q : 10) Percentage of steel for balanced design of a singly reinforced rectangular section by limit state method depends on
- A: Characteristic strength of concrete
- **B: Yield strength of steel**
- **C: Modulus of elasticity of steel**
- **D: Geometry of the section**



- Q:11) According to IS 456, the number of grades of standard concrete mixes are
- A: 3
- B: 5
- **C: 6**
- **D: 7**



- Q : 12) Building codes require the partition load to be considered even without partition if live load is less than-:
- A: 60 psf
- **B: 70 psf**
- C: 80 psf
- D: 90 psf



- Q:13) M15 concrete is used for:
- A: Dams
- **B: Foundation**
- C: RCC
- **D: Mass concreting works**



- Q:14) RCC was developed and first used by:
- A: Joseph monier
- **B: John Smeaton**
- **C: Francois coignet**
- D: Josheph asphadin



- Q:15) Rise of a jack arch is kept about
- A: 1/2 to 1/3 of the span
- B: 1/3 to 1/4 of the span
- C: 1/4 to 1/8 of the span
- D: 1/8 to 1/12 of the span



- Q : 16) The limiting depth of neutral axis for a reinforced concrete beam if size 250 mm in width and 550 mm in depth, with effective cover of 50 mm for reinforcement, using Fe 500 steel is:
- A: 230 mm
- B: 265 mm
- C: 210 mm
- D: 240 mm



- Q:17) For concrete works in sea water or exposed directly along the sea coast, the minimum grade of concrete recommended by IS 456:2000, for plain concrete and reinforced concrete are, respectively:
- A: M10 and M20
- B: M20 and M30
- C: M15 and M25
- D: M25 and M40



- Q:18) Which of the following methods aim for a comprehensive and rational solution to the design of reinforced cement concrete structure, by considering safety at ultimate loads and serviceability at working load?
- A: Limit state method
- **B: Working stress method**
- **C: Direct design method**
- **D: Ultimate load method**



- Q: 19) Proof resilience is the maximum energy stored at:
- A: Limit of proportionality
- **B: Elastic limit**
- **C:** Plastic limit
- **D: None of these**



- Q : 20) If 'P' is the tensile stress in a rectangular bar of length 'L' with 'b' and thickness 'd', the volumetric strain is given as:
- A: P(1 + 2μ)/E
- B: PL (1 2μ)/bd
- C: P(1 2 μ)
- D: P(1 2)/E



- Q : 21) If a uniform bar is supported at one end in a vertical direction and loaded at the bottom end by a load equal to the weight of the bar, the strain energy as compared to that due to self weight will be:
- A: Same
- **B: Half**
- C: Twice
- **D: Thrice**



- Q : 22) For a beam carrying a uniformly distributed load, the strain energy will be maximum in case the beam is:
- A: Propped cantilever
- **B: Fixed at both ends**
- **C: Cantilever**
- **D: Simply supported**



- Q : 23) The property of a material by which it can be beaten or rolled into plates, is called:
- A: Malleability
- **B: Ductility**
- **C: Plasticity**
- **D: Elasticity**



Daily Class – 8:00 PM

Q: 24) The dimension for kinematic viscosity is:

A:
$$\frac{L}{MT}$$

B: $\frac{L}{T^2}$
C: $\frac{L^2}{T}$
D: $\frac{ML}{T}$



- Q:25) Cavitation is caused by
- A: High velocity
- **B: Low pressure**
- **C: High pressure**
- **D: High temperature**



- Q : 26) If, for a fluid in motion, pressure at a point is same in all directions, then the fluid is
- A: A real fluid
- **B: A Newtonian fluid**
- C: AN ideal fluid
- D: A non-Newtonian fluid



- Q : 27) A body floating in a liquid in a stable state of equilibrium if its
- A: Centre of gravity is below its centre of buoyancy
- **B: Metacentre lies below its centre of gravity**
- **C: Metacentre coincides with its centre of gravity**
- **D: Metacentre lies above its centre of gravity**



- Q : 28) In an iceberg, 15% of the volume projects above the sea surface. If the specific weight of sea water is 10.5 kN/m³, the specific weight of iceberg in kN/m³ is
- A: 12.52
- B: 9.81
- C: 8.93
- D: 7.83



- Q : 29) For a two dimensional flow field, the stream function $\psi = \frac{3}{2}(y^2 - x^2)$. The magnitude of discharge occurring between the stream lines passing through points (0, 3) and (3, 4) is
- A: 6
- **B: 3**
- C: 1.5
- D: 2



- Q : 30) An inert tracer is injected continuously from a point in an unsteady flow field. The locus of locations of all the tracer particles at an instance of time represents
- A: Streamline
- **B:** Path-line
- C: Stream-tube
- **D: Streak-line**



- Q:31) If flow condition satisfies Laplace equation, the
- A: Flow is rotational
- **B: Flow does not satisfy continuous equation**
- C: Flow is irrotational but does not satisfy continuity equation
- D: Flow is irrotational and satisfies continuity equation.



- Q:32) Bernoulli's equation is applicable for
- A: Viscous and compressible fluid flow
- **B: Inviscid and compressible fluid flow**
- C: Inviscid and incompressible fluid flow
- **D: Viscous and incompressible fluid flow**



- Q : 33) The equation $gz + V^2/2 + \int dp/p =$ constant along a stream line holds true for
- A: Steady, frictionless, compressible fluid
- B: Steady, uniform, incompressible fluid
- C: Steady, frictionless, incompressible fluid
- D: Unsteady, incompressible fluid



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Q: 34) The cement becomes useless if its absorbed moisture content exceeds.

- A: 0.01
- **B: 0.02**
- C: 0.03
- D: 0.05


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- Q : 35) How much water is added in cement mortar to determine compressive strength of cement?
- A: Equal to 0.85P percent of total mass of cement and sand where p is water required for standard consistency
- **B: 0.4 times the mass of cement**
- C: 0.28 times the mass of cement mortar

D: Equal to $\left(\frac{P}{4} + 3\right)$ percent of total mass of cement and sand where P is water required for standard consistency.



- Q : 36) Which among the following is NOT a bogue's compound present in cement?
- A: 4 CaO. Al_2O_3 . Fe_2O_3
- B: 4 CaO. SiO₂. Fe_2O_3
- C: 3 CaO. Si₂
- D: 3 CaO. Al_2O_3



- Q : 37) When calcium sulphate attacks on calcium aluminate hydrate present in concrete, it produces:
- A: Anthracite
- **B: Ettringite**
- **C: Calcium hydroxide**
- **D: Asphalt**



- Q:38) Concrete recommended for the construction of radiation shields in nuclear plant is:
- A: Light weight concrete
- **B: Medium density concrete**
- **C:** Fibre reinforced concrete
- **D: High density concrete**



- Q : 39) When levelling is done at a busy construction site, what does the hand signal 'movement of right arm by 30° given by the instrument man (as shown in figure) to the man holding the staff signify
- A: Move top of staff of my right
- **B: Move to my right**
- C: Move top of staff to my left
- **D: Move to my left**





- Q:40) What is the length of surveyor's chain?
- A: 33 feet
- B: 133 feet
- **C: 66 feet**
- **D: 100 feet**



- Q:41) The correction due to wrong alignment of the tape:
- A: Depends upon whether the alignment is wrong to the right or left of the line
- **B: Is always positive**
- **C: Can be positive or negative**
- **D:** Is always negative



- Q:42) A prism square is used to:
- A: Set out a horizontal circular curve
- B: Set out a line at 45[°] to a survey line, without any linear measurement
- C: Set a line at right angles to a survey line
- D: Get an enlarged view of station marks



- Q : 43) If the fore bearing of a line AB is 40^o 15', then what will be the fore bearing of line BA?
- A: 40⁰ 15'
- B: 139⁰ 45'
- C: 130⁰ 15'
- D: 220⁰ 15'



- Q : 44) The degree of static indeterminacy of a rigid jointed space frame is:
- A: m + r 2j
- B: m + r 3j
- C: 3m + r 3j
- D: 6m + r 6j
- E: 2m + r 3j



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Q:45) The kinetic indeterminacy of the structure shown in the figure is equal to

A: 14

B: 15

C: 16

D: 17





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Q:46) A three hinged arch (parabolic) of span 'L' and crown rise 'h' carries a uniformly distributed super imposed load of intensity 'W' per unit length. The hinges are located on two abutments at the same level. The third hinge is at a quarter span from the left abutment. The horizontal thrust on the abutment is

A:
$$\frac{WL^2}{4h}$$

B:
$$\frac{WL^2}{6h}$$

C:
$$\frac{WL^2}{8h}$$

D:
$$\frac{WL^2}{12h}$$

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Q: 47) The three hinged arch shown in figure will have the horizontal thrust (H) of

A: 20 kN B: 30 kN C: 40 kN D: 50 kN 4m 4m 4m 4m 4m 4m 4m 80 kN 4m 4m 80 kN 4m 80 kN 4m 80 kN 4m 8m 8m 8m 8m 8m8m

- Q:48) An arch resists loads by developing:
- A: Axial thrust only
- **B: Axial thrust and shear**
- **C:** Shear and bending moment
- D: Axial thrust, shear and bending moment

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Q:49) The largest internal force in the bar shown in the following figure is

- A: 20 kN
- B: 13 kN
- C: 10 kN
- **D: 7 kN**

- Q : 50) Modulus of toughness is the area of the stress-strain diagram upto
- A: Rupture point
- **B: Yield point**
- **C: Limit of proportionality**
- D: Ultimate point

- Q : 51) In the continuous beam shown in the following figure, the support moment M at 3 (in kN-m) is
- A: 93.8
- B: 46.9
- C: 62.5
- D: -93.5
- E: 0.0

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Q : 52) The shear force diagram (SFD) for the beam shown in figure is

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Q : 53) For a rectangular beam with cross-section having width b and depth d and loaded as shown in figure, choose the ratio of maximum shear stress to maximum bending stress.

2a

- Q : 54) The limit of water content at which soil tends to pass from semi solid state to the solid state is called:
- A: Saturated limit
- **B: Liquid limit**
- **C: Plastic limit**
- D: Shrinkage limit

- Q : 55) Out of the cohesion limit, sticky limit, liquid limit, plastic limit and shrinkage limit, the most important in engineering practices are:
- A: Cohesion limit, plastic limit, shrinkage limit and sticky limit
- B: Liquid limit, plastic limit, shrinkage limit
- C: Plastic limit, shrinkage limit and cohesion limit
- D: Cohesion limit, plastic limit and liquid limit

- Q : 56) Identify the method that is NOT used for determination of in situ unit weight of a natural soil deposit?
- A: Core cutter method
- **B: Sand bath method**
- **C: Water displacement method**
- **D: Sand replacement method**

- Q:57) The lime stabilization is very effective in treating:
- A: Sandy soils
- **B: Silty soils**
- **C: Non-plastic soils**
- D: Plastic clayey soils

- Q:58) Which of the following curves fulfils the requirements of an ideal transition in horizontal alignment of the highways, for such curves radius is inversely proportional to the length and centrifugal acceleration is uniform throughout the length?
- A: Sine curve
- **B: Cubic parabolic curve**
- **C: Circular curve**
- **D: Spiral curve**

- Q : 59) Which of the following is taken as the highest safe speed limit, derived from spot speed study, for a highway?
- A: 80th percentile speed
- **B: 90th percentile speed**
- C: 98th percentile speed
- **D: 85th percentile speed**

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Q:60) Select the correct for the given information.

1. Regulatory signs	A. Prohibitory signs, restriction end
	signs, stop and give way signs, etc
2. Warning signs	B. Cross road, side road right, narrow bridge, etc
3. Informatory signs	C. Parking signs, flood gauge, facility information sign, etc.
Δ·1-C 2-Δ 3-B	

- B: 1-A, 2-C, 3-B
- C: 1-B, 2-C, 3-A
- D: 1-A, 2-B, 3-C

- Q : 61) In which type of traffic signal system do signals along a given road shows the same indication (green, red, etc) at the same time?
- A: Simultaneous system
- **B: Simple progressive system**
- **C: Alternative system**
- **D: Flexible progressive system**

- Q : 62) For the computation of annual average daily traffic, what is the minimum number of days of continuous traffic count made at a location?
- A: 5 days
- B: 3 days
- C: 2 days
- D: 7 days

- Q : 63) Regulatory sings are generally circular in shape. Identify a regulatory sign which is NOT circular in shape.
- A: Restriction ends sign
- **B: Speed limit sign**
- C: Stop sign
- D: No parking sign

- Q : 64) For concrete to be used for making airport runway, the aggregate impact value should not be more than:
- A: 30% by weight
- B: 25% nu weight
- C: 10% by weight
- D: 45% by weight

- Q:65) Which of the following binders is best suited for repair work of bituminous during rainy weather?
- A: Bitumen emulsion
- **B: Paving grade bitumen**
- C: Coal tar
- **D: Cutback bitumen**

- Q : 66) The interface treatment provided to plug in the voids of porous surfaces and to bond loose particles in bituminous pavements is called:
- A: Tack coat
- **B: Seal coat**
- **C: Prime coat**
- **D: Surface dressing**

- Q : 67) What nature of warping stresses are generated in a reinforced cement concrete pavement during a summer mid-day?
- A: Tensile in bottom fibre and compressive in top fibre
- **B: Compressive in both top and bottom fibre**
- **C: Tensile in both top and bottom fibre**
- **D: Compressive in bottom fibre and tensile in top fibre**

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- Q : 68) A watershed having an area of 4 km² is subjected to a rainfall event of 9 cm, thereby generating stream flow at the outlet of the watershed for 10 h. If the average stream flow rate at the outlet of the catchment is 5 m³/s, occurring for a period of 10 h, the runoff coefficient of the watershed for the storm is:
- A: 0.4
- B: 0.3
- C: 0.6
- D: 0.5

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- The given figure represents_
- A: Frequency of irrigation
- **B: Base flow of water**
- **C: Classes of soil water**
- **D: Furrow method of irrigation**

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Q : 70) The force per unit area that must be exerted in order to extract water from the soil is known as

- A: Capillary potential
- **B: Pooling capacity**
- **C: Moisture equivalent**
- **D: Soil moisture deficiency**


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- Q : 71) What is the permissible velocity of water in cement concrete lined canal as per IS 10430-2000?
- A: 2.7 m/s
- B: 1.8 m/s
- C: 3.1 m/s
- D: 1/5 m/s



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- Q : 72) Which of the following conditions is NOT applicable to a true regime?
- A: Channel can be scoured more easily than it can be deposited.
- **B: Silt grade is constant.**
- **C:** Discharge is constant.
- **D: Silt change is constant.**



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