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**Q : 1) In a lift moving with certain acceleration, tension in the cable supporting the lift is more when the lift is moving**

**A: Upwards**

**B: Downwards**

**C: Both upwards and downwards**

**D: None of the above**

**Q : 2) When a body is subjected to three mutually perpendicular stresses of equal intensity, the ratio of direct stress to the corresponding volumetric strain is known as**

**A: Poisson's Ratio**

**B: Bulk modulus**

**C: Young's modulus**

**D: Modulus of rigidity**



**Q : 3) The latitude of a given place is zero on**

**A: Nadir side**

**B: Zenith side**

**C: Equator**

**D: Anywhere**

**Q : 4) A lift moves downwards with an acceleration of  $9.81 \text{ m/s}^2$ . The pressure exerted by a man of weight 600 N on the floor of the lift is**

**A: 9.81 N**

**B: Zero**

**C: 19.62 N**

**D: 4.95 N**

**Q : 5) A simply supported beam AB of span 'L' carries a uniformly varying load over the entire span, varying from zero intensity at end B to 'w' per unit length at end A. The shear force at B is**

**A:  $wL/6$**

**B:  $wL/3$**

**C:  $2 wL/3$**

**D:  $2 wL$**



**Q : 6) About an axis perpendicular to the circular section, moment of inertia is given by**

**A:  $\pi d^3/16$**

**B:  $\pi d^4/32$**

**C:  $\pi d^3/32$**

**D:  $\pi d^4/64$**

**Q : 7) Two fixed beams A and B are having same span 'L'. Beam B carries a central point load 'W' and beam A carries a uniformly distributed load such that the total load on beam B is 'W'. The ratio of maximum deflection between beams A and B is**

**A: 1**

**B: 2**

**C: 3**

**D: 4**

**Q : 8) The ratio of Young's modulus to bulk modulus for a Poisson's ratio of 0.25 is**

**A:  $1/3$**

**B:  $2/3$**

**C: 1**

**D:  $3/2$**



**Q : 9) In the limit state design for flexure, the area of the stress block for concrete is**

**A:  $0.36 f_{ck} X_u$**

**B:  $0.42 f_{ck} X_u$**

**C:  $0.48 f_{ck} X_u$**

**D:  $0.53 f_{ck} X_u$**

**Q : 10) If a two way slab is found to be unsafe in shear, which of the followings would you recommend?**

**A: provide shear stirrups**

**B: Increase diameter of longitudinal reinforcement**

**C: Increase the thickness of slab**

**D: None of the above**

**Q : 11) Equilibrant is a force**

**A: Which brings a body in equilibrium**

**B: Which moves the body along the resultant force**

**C: In zig-zag movement of the body**

**D: Which moves the body in opposite direction to equilibrant force**



**Q : 12) The most common method of pre-stressing for mass production in the factory is**

**A: Freyssinet method**

**B: Long line method**

**C: MagnelBlaton method**

**D: None of the above**

**Q : 13) The soil transported by running water is called**

**A: Alluvial**

**B: Marine**

**C: Aeolian**

**D: Lacustrine**

**Q : 14) The uniformity coefficient is defined as the ratio of**

**A:  $D_{10}$  to  $D_{20}$**

**B:  $D_{30}$  to  $D_{40}$**

**C:  $D_{60}$  to  $D_{10}$**

**D:  $D_{50}$  to  $D_{30}$**

**Q : 15) The permeability of a given soil is**

**A: Directly proportional to the average grain size**

**B: Inversely proportional to the average grain size**

**C: Directly proportional to the square of the average grain size**

**D: Inversely proportional to the square of the average grain size.**

**Q : 16) The possibility of quick sand condition will be there when flow of water to soil is**

**A: Horizontal**

**B: Upwards**

**C: Downwards**

**D: Radial**

**Q : 17) Optimum moisture content is the moisture content at which**

**A: Settlement is maximum**

**B: Permeability is more**

**C: Dry density is maximum**

**D: Shear strength is less**



**Q : 18) With regards to radius of curvature of an ideal transition curve, which of the following statements is correct?**

**A: It is inversely proportional to the main circular curve**

**B: It is constant throughout the length of the curve**

**C: It is inversely proportional to its distance from point of tangency**

**D: It is directly proportional to the longitudinal section of the curved portion**

**Q : 19) The tilt displacement in an aerial photograph is radii from**

**A: Isocentre point**

**B: Nadir point**

**C: Principal point**

**D: Plumb point**

**Q : 20) A reinforced concrete beam will crack, if tensile stress set up in the concrete below the neutral axis is**

**A: Less than permissible stress**

**B: More than permissible stress**

**C: Equal to permissible stress**

**D: Anyone of the above**

**Q : 21) Reinforcement for torsion is provided in the form of**

**A: Longitudinal reinforcement only**

**B: Both longitudinal and shear reinforcement**

**C: Shear reinforcement only**

**D: None of the above**

**Q : 22) The wire mesh provided at the corners of a two way slab**

**A: Controls cracking of corners**

**B: Prevents corners from lifting**

**C: Distributes bending moment uniformly**

**D: None of the above**

**Q : 23) Theory of thin cylinder is used to design surface tank walls of**

**A: Circular tanks with walls restrained at base**

**B: Short walls of rectangular tanks**

**C: Circular tanks with flexible joint at base**

**D: None of the above**



**Q : 24) In a two way rectangular reinforced footing, the central band in long direction contains**

- A: More reinforcement**
- B: Twice the reinforcement in the short direction**
- C: Less reinforcement**
- D: None of the above**

**Q : 25) In pre-stressed member, the wobble effect is related with**

**A: Creep of concrete**

**B: Frictional losses**

**C: Creep of steel**

**D: Shrinkage of concrete**

**Q : 26) Flats are used as tension members in**

**A: Roof trusses**

**B: Transmission towers**

**C: Suspension bridges**

**D: All the above**

**Q : 27) An out of plane web distortion is known as**

**A: Web buckling**

**B: Vertical web buckling**

**C: Column buckling**

**D: All of the above**

**Q : 28) When a beam is connected to a stanchion by means of two angles riveted to them, the connection is known as**

**A: Unstiffened seated connection**

**B: Stiffened seated connection**

**C: Framed connection**

**D: None of the above**

**Q : 29) The ratio of volume of voids to total volume of soil mass is called**

**A: Water content**

**B: Porosity**

**C: Void ratio**

**D: Degree of saturation**



**Q : 30) Toughness index is the ratio of**

**A: Flow index and plasticity index**

**B: Plasticity index and flow index**

**C: Liquidity index and flow index**

**D: Flow index and liquidity index**

**Q : 31) As angle of internal friction ' $\phi$ ' increases, coefficient of active earth pressure**

**A: Increases**

**B: Decreases**

**C: Remains same**

**D: None of the above**

**Q : 32) The minimum depth of foundation for buildings of clay is**

**A: 0.2 to 0.4 m**

**B: 0.4 to 0.6 m**

**C: 0.6 to 0.9 m**

**D: 0.9 to 1.6 m**

**Q : 33) Heading bond is usually used for**

**A: Half brick wall**

**B: One brick wall**

**C: One and half brick wall**

**D: Two brick wall**

**Q : 34) In a strains, the flier is**

**A: A vertical portion of step providing a support to the tread**

**B: A straight step having a parallel width of tread**

**C: The under surface pf a stair**

**D: The angle which the line of nosing of stair makes with horizontal**

**Q : 35) The type of masonry in which the stones of irregular size and shapes are used and there are no regular courses is known as**

**A: Uncoursed rubble masonry**

**B: Coursed rubble masonry**

**C: Random rubble masonry**

**D: Dry rubble masonry**



**Q : 36) A type of brick masonry in which each course consists of alternate header and stretchers is called as**

**A: English bond**

**B: Flemish bond**

**C: Stretching bond**

**D: Heading bond**

**Q : 37) The function of aggregates in concrete is to serve as**

**A: Binding material**

**B: Filler**

**C: Catalyst**

**D: All of these**

**Q : 38) Which of the following ingredient of cement when added in excess quantity, causes the cement to set slowly?**

**A: Lime**

**B: Silica**

**C: Alumina**

**D: Iron oxide**

**Q : 39) The inert material used for the manufacture of mortars and concrete is**

**A: Cement**

**B: Water**

**C: Aggregate**

**D: Admixture**

**Q : 40) Initial setting time for ordinary Portland cement is**

**A: 15 min**

**B: 30 min**

**C: 60 min**

**D: 10 h**

**Q : 41) The value of bulk density of aggregate depend upon**

**A: Size distribution of aggregate**

**B: Shape of aggregate**

**C: Specific gravity of aggregate**

**D: All of these**

**Q : 42) Workability of concrete by slump test is expressed as**

**A: Minutes**

**B: mm/h**

**C: mm<sup>2</sup>/h**

**D: mm**

**Q : 43) A compaction factor 0.88 indicates that workability of concrete mix is**

**A: Very low**

**B: Low**

**C: medium**

**D: High**



**Q : 44) The conception of idea for any construction work is the responsibility of**

**A: Owner**

**B: Engineer**

**C: Contractor**

**D: All of these**

**Q : 45) Milestone chart is an improvement over**

**A: Bar chart**

**B: PERT**

**C: CPM**

**D: All of these**

**Q : 46) A Gantt chart indicates**

**A: Balance of work done**

**B: Efficiency of project**

**C: Comparison of actual process with scheduled process**

**D: Progress of project**

**Q : 47) PERT stands for**

**A: Program Estimation and reporting technique**

**B: Process estimation and review technique**

**C: Program evaluation and review technique**

**D: Planning estimation and review technique**

**Q : 48) Alignment of road is finally decoded on the basis of**

**A: Selection of route**

**B: Field survey**

**C: Trace cut**

**D: None of these**

**Q : 49) The value of maximum gradient for the hill roads**

**A: 1 in 5**

**B: 1 in 10**

**C: 1 in 15**

**D: 1 in 20**

**Q : 50) An average value pf coefficient of velocity is**

**A: 0.62**

**B: 0.76**

**C: 0.84**

**D: 0.97**

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