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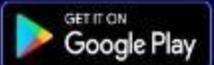
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Q : 1) In a lift moving with certain acceleration, tension in the cable supporting the lift is more when the lift is moving

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 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 loos

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 ' ϕ ' 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: mm²/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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