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Q : 1) The process of finding out the resultant force is called

A: Resolution

B: Superposition

C: Composition

D: Transition

Q : 2) The angle of inclination of the plane at which the body begins to move down the plane is called

A: Angle of friction

B: Angle of repose

C: Angle of projection

D: None of the above

Q : 3) As per the Indian standard soil classification system, a sample of silty clay with liquid limit of 40% and plasticity index pf 28% is classified as

A: CH

B: CI

C: CL

D: CL-ML

Q : 4) A rectangular open channel of width 5.0 m is carrying a discharge of 100 m³/s. The Froude number of the flow is 0.8. The depth of flow (in m) in the channel is

A: 4

B: 5

C: 16

D: 20

Q : 5) The ratio of actual evapotranspiration to potential evapotranspiration is in the range

A: 0.0 to 0.4

B: 0.6 to 0.9

C: 0.0 to 1.0

D: 1.0 to 2.0

Q : 6) Road roughness is measured using

A: Benklman beam

B: Bump integrator

C: Dynamic cone penetrometer

D: Falling weight deflectometer

Q : 7) Which of the following errors can be eliminated by reciprocal measurements in differential leveling?

- I. Error due to earth's curvature**
- II. Error due to atmospheric refraction**

A: Both I and II

B: I only

C: II only

D: Neither I nor II

Q : 8) A force, when applied to a body having mass 1kg and giving it a acceleration of 1m/sec. , is known as

A: 1 Dyne

B: 1 Newton

C: 1 Poundal

D: All the above

Q : 9) Which of the following are correct units of impulse?

A: Gm-cm/sec

B: Kg-m/sec

C: Dyne-sec

D: All the above

Q : 10) If three forces acting at a point are in equilibrium, then ratio of the force to the sine of opposite angle is constant, Only it, all the forces are.

A: In wards

B: Out wards

C: Can be both

D: None of the above

Q : 11) Moment of a couple about any point in space is always

A: Different

B: Same

C: Both the above

D: None of the above

Q : 12) The frictional force which prevents one body from sliding on another is known as

A: Static friction

B: Kinetic friction

C: Cone of friction

D: None of the above

Q : 13) Which of the following is correct expression for centripetal force?

A: $m \times v^2/r$

B: $m \times r\omega^2$

C: Both the above

D: None of the above

Q : 14) Which of the following are known as silicious rock?

A: Slate

B: Limestone

C: Laterites

D: Granite

Q : 15) Which of the following have less unit weight?

A: Granite

B: Sand stone

C: Marble

D: Basalt

Q : 16) Stone in building work can be used for which of the following components?

A: Foundation

B: Walls and columns

C: Arches and lintel

D: All the above

Q : 17) A test, to find out the rate of wear of stone used in road construction is

A: Crushing test

B: Impact test

C: Attrition test

D: Hardness test

Q : 18) The brick which is light in weight, reduce to transmission of heat, sound and dampness, is known as

- A: Hollow brick**
- B: Cavity brick**
- C: Cellular brick**
- D: All the above**

Q : 19) Properties of steel can be altered by

A: Structural treatment

B: Heat treatment

C: Both the above

D: None of the above

Q : 20) The slope of tensile stress-strain diagram represents

A: Modulus of rupture

B: Modulus of elasticity

C: Tenacity

D: Ductility

Q : 21) The structural member which can carry compressive force only is known as

A: Tie

C: Channel

C: Strut

D: None of the above

Q : 22) Factor of safety is employed to keep the working stress

A: Below the elastic limit

B: Below the proportional limit

C: Below the yield point

D: Between elastic limit and proportional limit

Q : 23) The value of Poisson ratio is generally not greater than

A: 0.05

B: 1

C: 0.5

D: 1.5

Q : 24) The stress in any fibre in a beam subjected to bending depends upon

A: Distance of fibre from neutral axis

B: Radius of curvature of neutral axis

C: Elasticity

D: None of the above

Q : 25) If a small concrete cube is submerged deep in still water in such a way that the pressure exerted on all faces of the cube is p , then the maximum shear stress developed inside the cube is

A: 0

B: $p/2$

C: $2p$

D: p

Q : 26) In a steel plate with bolted connections, the rupture of the net section is a mode of failure under

A: Tension

B: Compression

C: Flexure

D: Shear

Q : 27) The main constituent of Portland cement is _____.

A: Lime

B: Alumina

C: Iron oxide

D: Magnesium oxide

Q : 28) Coefficient of friction of road surface decreases on

A: Decrease in load

B: Temperature rise

C: Depleted type pressure

D: None of the above

Q : 29) To orient a plane table at a point with two inaccessible points, the method generally adopted is

A: Intersection

B: Resection

C: Radiation

D: Two point problem

Q : 30) The vertical angle between longitudinal axis of a freely suspended magnetic needle and a horizontal line at its pivot is known as

A: Declination

B: Azimuth

C: Dip

D: Bearing

Q : 31) Which of the following pump is successfully used for lifting water to turbines?

A: Centrifugal

B: Reciprocating pump

C: Jet pump

D: Air lift pump

Q : 32) In limit state of collapse in flexure, the ultimate strain in concrete is limited to

A: 0.002

B: 0.0035

C: 0.003

D: 0.0025

Q : 33) The percentage of alumina in a good brick clay should may from

A: 20% - 30%

B: 30% - 40%

C: 40% - 50%

D: 50% - 60%

Q : 34) The angle which the resultant of frictional force and normal force makes with the normal to the sliding surface when it is on the verge of sliding is called

A: Angle of repose

B: Angle of limiting friction

C: Angle of kinetic friction

D: None of the above

Q : 35) The ratio of different ingredients (cement, sand, aggregate) in concrete mix of grade M20, is

A: 1 : 1 : 2

B: 1 : 15 : 3

C: 1 : 2 : 4

D: 1 : 3 : 6

Q : 36) The centre of gravity of a right circular solid cone of height 'h' measured along the vertical axis, is at distance of

A: $h/2$

B: $h/3$

C: $h/4$

D: $h/6$

Q : 37) “If three force acting at a point are in equilibrium, then each force is proportional to the sine of the angle between the other two”. This theorem statements is

A: principle of transmissibility

B: Lami’s theorem

C: Parallel axis theorem

C: None of the above

Q : 38) The deformation produced in a body when subjected to a direct load equal to weight of the body, and the deformation produced due to own weight of the bar are

A: Equal

B: Half

C: Double

D: Thrice

Q : 39) When a body is subjected to a direct tensile stress (σ) in one plane, then maximum normal stress occurs at a section inclined at an angle θ to the normal of the section, where θ is

A: 30°

B: 0°

C: 45°

D: 90°

Q : 40) When a body is strained within plastic limit, the energy stored is known as

A: Resilience

B: Proof resilience

C: Potential energy

D: Strain energy

Q : 41) Drift method of tunneling is used to construct tunnels in

A: Soft grounds

B: Rocks

C: Self-supporting grounds

D: Broken grounds

Q : 42) The bending moment at fixed end of a cantilever beam of length 'L' and carrying a gradually varying load from zero at free end and 'w' per unit length at fixed end is

A: $wL^2/2$

B: $wL^2/4$

C: $wL^2/6$

D: Zero

Q : 43) Lug angles are

A: provided to take heavy moments

B: Angles to reduce the length of connection

C: Angles with bulb on one leg

D: Angles subjected to reversal of stresses

Q : 44) Column splices are assumed to be

A: Short columns

B: Long columns

C: Intermediate columns

D: None of the above

Q : 45) A vertical plate of a plate girder is called

A: Web plate

B: Flange plate

C: Cover plate

D: None of the above

Q : 46) Glacial soils are those which are

A: Deposited in sea water

B: Deposited at the bottom of lakes

C: Transported by running water

D: None of the above

Q : 47) The maximum size of the particles of clay is about

A: 0.0002 mm

B: 0.002 mm

C: 0.002 mm

D: 0.2 mm

Q : 48) The approximate void ratio in sandy soils is

A: 0.2

B: 0.3

C: 0.6

D: 1.2

Q : 49) Darcy's law is valid only if the flow is

A: Turbulent

B: Due to water

C: laminar

D: Intermittent

Q : 50) Compaction of soil is measured in terms of

A: Dry density

B: Specific gravity

C: Compressibility

D: Permeability

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