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Q : 1) The effective method of compacting very dry concrete that is often used for compacting hollow blocks, cavity blocks and solid concrete block is known as:

A : Compaction by spinning

B : Compaction by vibration

C : Hand compaction

D : Compaction by pressure and jolting

Q : 2) Which of the following types of shapes is Incorrect for plain sedimentation tanks?

A : Triangular tank with radial flow

B : Circular tank with spiral flow

C : Hopper bottom tank with vertical flow

D : Rectangular tank with horizontal flow

Q : 3) Which of the following is NOT an advantage of steel sleepers over wooden sleepers?

A : Suitable for track-circuited areas

B : Less damage during handling and transport

C : Good lateral rigidity

D : Easy to maintain gauge, and less maintenance problems

Q : 4) Rails are tilted inward at an angle of _____ to reduce wear and tear on the rails as well as on the tread of the wheels.

A : 1 in 25

B : 1 in 17

C : 1 in 12

D : 1 in 20

Q : 5) Which of the following grids is established inside the structural, to establish internal details of a building, which are otherwise not visible directly from the structural grid?

A : Frame grid

B : Site grid

C : Survey grid

D : Secondary grid

Q : 6) According to IS : 456 : 2000, the basic span to effective depth ratio for continuous beams and slabs should be :

A : 26

B : 40

C : 20

D : 35

Q : 7) A _____ has only one vertical axis, and a single horizontal clamp-and-tangent screw which controls the rotation about the vertical axis.

A : Direction theodolite

B : Tangential theodolite

C : Repeating theodolite

D : Traversing theodolite

Q : 8) In a single supported beam of span 'L' carrying "UDL" 'w' over the entire span, the maximum moment will be:

A : $\frac{wL^2}{2}$

B : $\frac{wL^2}{8}$

C : $\frac{wL^2}{4}$

D : $\frac{wL^2}{16}$

Q : 9) Which of the following should be the defined structure of a three hinged arch?

A : A beam which is statically bent

B : Statically indeterminate structure

C : Statically determinate structure

D : A beam which is structurally bent

Q : 10) Rainfall with an intensity of 6 mm/h is classified as:

A : Trace rain

B : Moderate rain

C : Heavy rain

D : Light rain

Q : 11) In case of plain concrete at least _____ grade of concrete shall be used where it remains in sea-water or exposed directly along the sea-coast.

A : M10

B : M15

C : M20

D : M30

Q : 12) A line on a map connecting area of equal rainfall is known as :

A : Hyetograph

B : Isohyet

C : Mass curve

D : Hydro line

Q : 13) 'Particles smaller than 75 micron IS sieve, identified by behavior, that is, slightly plastic or non-plastic regardless of moisture and exhibits little or no strength when air-dried'.

The given particle size range and description is true for:

A : Organic matter (O)

B : Silt (M)

C : Gravel (G)

D : Clay (C)

Q : 14) What should be the permissible variation in the overall height of rails?

A : +1.0 mm to - 0.5 mm

B : +2.0 mm to – 10 mm

C : +0.8 mm to – 0.4 mm

D : ± 0.5 mm

Q : 15) Which of the following statements is NOT true with regard to high volume fly ash concrete (HVFA)?

A : HVFA is to be cured effectively and for shorted duration than ordinary concrete

B : The properties of HVFA concrete are largely dependent on characteristics of cement and fly ash.

C : As the water content is low in high volume fly ash, the bleeding is very low and often negligible.

D : HVFA concrete should be properly protected from premature drying by properly covering the surface.

Q : 16) Prestressing is possible by using:

A : Mild steel

B : High-strength deformed bars

C : High-tensile steel

D : Low-strength mild steel

Q : 17) _____ transmit the loads through their bottom tips. Such piles act as columns and transmit the load through a weak material to a firm stratum below.

A : Compaction piles

B : Flat bearing piles

C : End-bearing piles

D : Friction piles

Q : 18) Which of the following methods of determining total hardness of water uses a solution of di-ethylene diamine tetra acetic acid?

A : Hoyer's method

B : Hohner's method

C : Verse Nate method

D : Clark's method

Q : 19) This component of the settlement of foundation occurs due to gradual expulsion of water from the voids of the soil. This foundation settlement under loads is known as:

A : Secondary consolidation settlement

B : Immediate settlement

C : Consolidation settlement

D : Elastic settlement

Q : 20) The size of aggregate bigger than _____ is considered as coarse aggregate.

A : 5 mm

B : 4.25 mm

C : 5.25 mm

D : 4.75 mm

Q : 21) Which of the following pavements can resist only very small tensile stresses because of limited rigidity?

A : Semi-flexible pavements

B : Semi-rigid pavements

C : Flexible pavements

D : Rigid pavements

Q : 22) The reduction in the strength of cores can be as high as _____ for 40 MPa concrete.

A : 15%

B : 20%

C : 5%

D : 10%

Q : 23) Which of the following is an electro-magnetic distance measurement (EDM) system used for measuring distance between any two given points?

A : Geodimeter

B : Telemetric method using optical wedge attachments

C : Chaining

D : Tacheometry

Q : 24) _____ include the weight of materials permanently fixed to a structure such as beams, floors, walls, columns and fixed service equipment.

A : Computation loads

B : Structure loads

C : Dead loads

D : Live loads

Q : 25) A column of rectangular section is considered _____, if any of the two slenderness ratio is equal to or more than 12.

A : Slender

B : Braced

C : Unbraced

D : Short

Q : 26) The minimum number of longitudinal bars provided in a column shall be _____ in rectangular columns and _____ in circular columns.

A : Two; four

B : Six; four

C : Four; two

D : Four; six

Q : 27) _____ are simple and similar to that of ordinary precast RCC units. These sleepers are manufactured in a mould in which the necessary reinforcement and tie bar are placed in position.

A : Post-tension concrete sleepers

B : Mono block prestressed sleepers

C : Pre-tension concrete sleepers

D : Two-block concrete sleepers

Q : 28) Which of the following mat foundations is suitable when the bending stresses are high because of large column spacing and unequal column loads?

A : Flat plate type

B : Flat plate thickened under columns

C : Beam and slab construction

D : Box structure

Q : 29) The size of frog provided in the standard brick should be:

A : $9 \times 4 \times 0.8$ cm

B : $9 \times 4 \times 1$ cm

C : $10 \times 4 \times 1$ cm

D : $10 \times 3 \times 1$ cm

Q : 30) The octahedral structural unit of clay minerals consists of _____ hydroxyls forming a configuration of an octahedron and having one Aluminium atom at the centre.

A : Four

B : Six

C : Eight

D : Seven

Q : 31) A method of prestressing concrete by tensioning the tendons against hardened concrete is known as :

A : Full prestressing

B : Post tensioning

C : Pre tensioning

D : Anchorage

Q : 32) Which of the following methods for measuring rail stresses is mostly used by Indian railways at present?

A : Electro-static method

B : Method employed using special test frame

C : Photo-elastic method

D : Elastic resistance strain gauge method

Q : 33) _____ is the most recent innovation in desalting processes.

A : Multi-effect multistage flash evaporator (MEMS)

B : Combined processes (VTE/MSF)

C : Multistage flash evaporator (MSF)

D : Vertical tube evaporator (VTE)

Q : 34) For mild exposure, for main reinforcement steel bars up to 12 mm diameter, the nominal cover may be reduced by:

A : 10 mm

B : 5 mm

C : 6 mm

D : 7 mm

Q : 35) _____ represents the maximum width and height to which a rolling stock, namely, a locomotive, coach or wagon, can be built.

A : Loading gauge

B : Trans gauge

C : Construction gauge

D : Rolled gauge

Q : 36) _____ structure develops in clays that have been reworked or remoulded.

A : Clay matrix

B : Honey comb

C : Dispersed

D : Single-grained

Q : 37) Coarse grained sandstone is used for which of the following types of work?

A : Buildings facing the sea

B : Railway ballast

C : Buildings in industrial areas

D : Arches

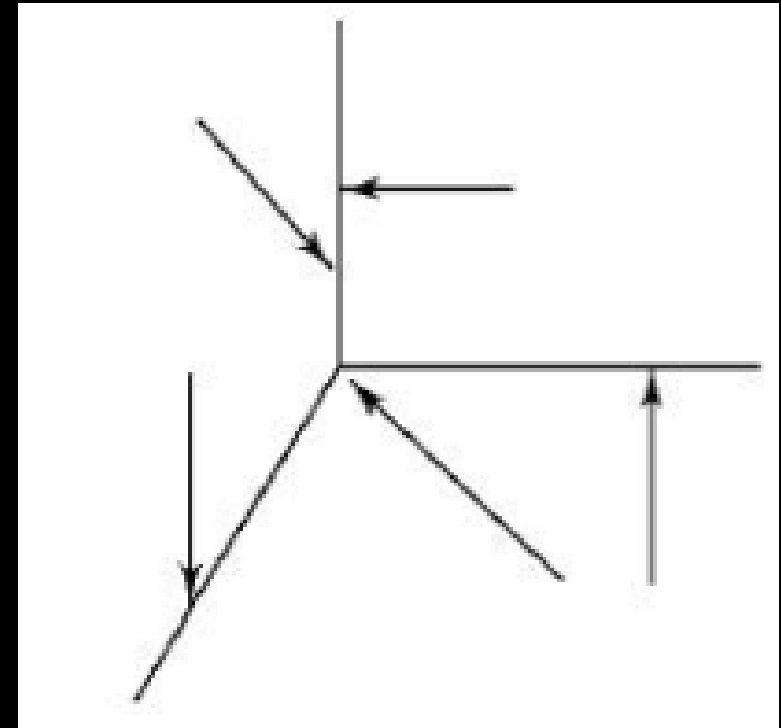
Q : 38) Which of the following forces systems does the given figure represent?

A : Concurrent space

B : Parallel space

C : General space

D : Coplanar space



Q : 39) Which of the following is the most reliable method of estimating the load carrying capacity of piles?

A : Static method

B : Dynamic formulas

C : In-situ penetration test

D : Pile load test

Q : 40) Which of the following appurtenances used in a water distribution system are also known as check valves or non-return valves?

A : Air valves

B : Reflux valves

C : Altitude valves

D : Sluice valves

Q : 41) The method of area calculation which is more useful when the boundary line departs considerably from the straight line is called:

A : The mild-ordinate rule

B : The average ordinate rule

C : The trapezoidal rule

D : Simson's one-third rule

Q : 42) Which of the following statements is NOT true for precise levelling when compared to ordinary levelling?

A : Length of sight is limited to 100 m in length

B : Two rodmen are employed and backsight and foresight are taken in quick succession.

C : Rod readings are taken against the two horizontal hairs of the diaphragm.

D : High grade levels and stadia rods are used in precise levelling

Q : 43) What should be the approximate quantity of surface water in moderately wet sand (in percentage by mass)?

A : 2.5%

B : 5%

C : 7.5%

D : 1.0%

Q : 44) Which of the following supports provides one reactive force in any direction or two reactive forces horizontally and vertically?

A : Pinned support

B : Fixed support

C : String or cable support

D : Roller support

Q : 45) Water distribution meters which measure the velocity of flow across section whose area is known and used only for high flows are called:

A : Positive meters

B : Inferential meters

C : Displacement meters

D : Composite meters

Q : 46) Linear prestressing is adopted in:

A : Pipes

B : wells

C : Circular tanks

D : Beams

Q : 47) _____ is the phenomenon of a failing under very little stress due to repeated cycles of loading.

A : Brittleness

B : Fatigue

C : Resilience

D : Creep

Q : 48)_____ is provided to support an individual column. It is circular, square or rectangular slab of uniform thickness. Sometimes it is stepped or haunched to spread the load over a large area.

A : Strap footing

B : Cantilever footing

C : Spread footing

D : Combined footing

Q : 49) The ballast of which of the following bricks is used for foundation and floors in lime concrete and road metal?

A : First class bricks

B : Second class bricks

C : Third class bricks

D : Fourth class bricks

Q : 50) _____ are undesirable in water used in many industrial processes and the acid produced during their metabolism may be destructive to concrete and other structures.

A : Sulphur bacteria

B : Gelatin liquefying bacteria

C : Iron bacteria

D : Slime forming bacteria

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