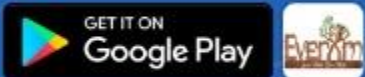




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Q : 1) When strict control on workability is required, measurement of workability by determination of compaction factor is more appropriate than slum _____ category of workability.

A : Low

B : Very low

C : High

D : Very high

Q : 2) Moment of inertia of a triangular section of base width “b” and height “h” about its centre of gravity is _____

A : $bh^3/13$

B : $bh^3/36$

C : $bh^3/12$

D : $bh^3/32$

Q : 3) Transition curves are used between straight and circular curve to introduce gradually _____.

A : Centrifugal force

B : Super elevation

C : Both centrifugal force and super elevation

D : None of the above

Q : 4) In a precast pile segment, point out the location, where two hooks should be installed, so that maximum moment induces in the pile should be and minimum reinforcement for bending could be required.

- A : 0.218 times span from both ends**
- B : 0.206 times span from both ends**
- C : 0.209 times span from both ends**
- D : 0.231 times span from both ends**

Q : 5) Undrained shear strength of soil at liquid limit may be around _____

A : 0.17 kPa

B : 1.1 kPa

C : 1.7 kPa

D : None of the above

Q : 6) The correction due to curvature of earth is (in m) _____. (Where D is distance of staff from level in km).

A : $0.0785 D^2$

B : $0.0112 D^2$

C : $- 0.0112 D^2$

D : $0.0785 D^2$

Q : 7) A cantilever beam of span “L” is subjected to a couple of magnitude “M” at free end. Maximum shear force induced in the beam will be _____

A : M

B : M/L

C : Zero

D : None of the above

Q : 8) Terzaghi analysis makes the following assumption to arrive at an approximate value of ultimate bearing capacity.

A : Length $>$ 5 times width

B : Depth not greater than width

C : Soil is homogeneous, isotropic and incompressible

D : All of the above

Q : 9) Gunter's chain is _____ long.

A : 50 m

B : 66 feet

C : 20 m

D : 30 m

Q : 10) Flow – mass curve is an integral curve of _____

A : The hyetograph

B : The flow duration curve

C : The hydrograph

D : The S – curve

Q : 11) Swinging of telescope means_____

A : Turning the telescope about horizontal axis

B : Turning the telescope about vertical axis

C : Transiting

D : None of the above

Q : 12) Angle section belong to buckling class _____ when used as compression member.

A : b

B : a

C : c

D : d

Q : 13) _____ is used in remote hilly stations.

A : Symon's rain gauge

B : Tipping bucket type rain gauge

C : Floating type rain gauge

D : None of the above

Q : 14) _____ is a type of displacement pump.

A : Air lift pump

B : Jet pump

C : Hydraulic ram

D : Rotary pump

Q : 15) Rain is classified as heavy rain if its intensity is _____

A : More than 2.5 mm/hour

B : More than 5.0 mm/hour

C : More than 7.5 mm/hour

D : None of the above

Q : 16) Sensitivity of a sensitive soil should be _____

A : < 2

B : $2 - 4$

C : $4 - 8$

D : None of the above

**Q : 17) Maximum shear stress induces on
a _____**

A : Major principal plane

B : Minor principal plane

**C : Plane which bisects major and minor
principal planes**

D : None of the above

Q : 18) Design capacity of a weld is reduced when length of the welded joint is _____

A : Greater than 50 times throat thickness

B : Greater than 100 times throat thickness

C : Greater than 150 times throat thickness

D : None of the above

Q : 19) For a steel of 250 MPa yield strength, increase in thickness of the web is only option, if ratio of clear depth of web to thickness of web exceeds

A : 100

B : 150

C : 250

D : 400

Q : 20) When both fore sight and back sight readings are taken at the same station, the station is called_____

A : Bench mark

B : Change point

C : Any one of the above

D : None of the above

Q : 21) Roller end of a real beam is replaced with a _____ in its conjugate beam.

A : Fixed end

B : Free end

C : Roller end

D : Hinged end

Q : 22) If wall is not moving with reference to backfill, earth pressure acting on wall is called_____.

A : Active earth pressure

B : Passive earth pressure

C : Earth pressure at rest

D : None of the above

Q : 23) A _____ chamber is given in cement concrete roads in areas of heavy rainfall.

A : 2.0%

B : 2.5%

C : 3.0%

D : 3.5%

Q : 24) Dowel reinforcement used in columns or pedestal and footings, should not be less than _____.

A : 0.4% of cross-sectional area of the supported column or pedestal.

B : 0.3% of cross-sectional area of the supported column of pedestal.

C : 0.5% of cross-sectional area of the supported column or pedestal

D : 0.2% of cross-sectional area of the supported column or pedestal.

Q : 25) Stand by capacity should be

A : Equal to 100% of average demand

B : Equal to 33.33% to 50% of peak demand

C : None of the above

D : Both equal to 100% of average demand and equal to 33.33% to 50% of peak demand

Q : 26) For tremie concreting, slump of concrete should be _____

A : 100 -1 50 mm

B : 25 – 75 mm

C : 50 – 100 mm

D : 75 – 100 mm

Q : 27) In _____, horizontal and vertical distance are determined by angular observations.

A : Theodolite survey

B : Leveling

C : Tacheometric survey

D : None of the above

Q : 28) _____ Joint is a some
what flexible joint for cast iron pipes.

A : Mechanical

B : Socket and spigot

C : Dresser coupling

D : Flanged

Q : 29) Ratio of maximum flow to average flow for mains of upto 1 m diameter should be _____.

A : 4.0

B : 3.0

C : 2.0

D : None of the above

Q : 30) Maximum daily demand of water is _____

A : 2.5 times of average daily demand of water

B : 1.8 times average daily demand of water

C : 2.7 times of average daily demand of water

D : 1.8 times annual average hourly demand of water

Q : 31) If readings on vernier scale and main scale are increasing in opposite direction, it is called a _____.

A : Double vernier

B : Retrograde vernier

C : Scale of chords

D : Direct vernier

Q : 32) Plot of intensity of rainfall against the time interval is called _____

A : Hydrograph

B : Hyetograph

C : Isotherm

D : None of the above

Q : 33) A punched hole is permitted

_____.

A : Only in material whose yield strength (f_y) does not exceed 360 MPa.

B : Where thickness does not exceed $(5600/f_y)$ mm.

C : Both only in material whose yield strength (f_y) does not exceed 360 MPa and where thickness does not exceed $(5600/f_y)$ mm.

D : None of the above

Q : 34) In computing net width of a plate, if hole is made by direct punching procedure, deduction for hole is made for _____

A : Diameter of the fastener.

B : Diameter of the hole, which is little larger than diameter of the fastener.

C : 2 mm in addition to the diameter of the hole

D : None of the above

Q : 35) In fillet welds, the actual length is

A : Not less than four times the size of the weld

B : Larger of effective length of weld shown on the drawing plus two times the weld size and not less than four times the size of the weld.

C : Smaller of effective length of weld shown on the drawing plus two times the weld size and not less than four times the size of the weld.

D : Effective length of weld shown on the drawing plus two times the weld size.

Q : 36) For working pressure of 20 kg/cm², _____ type of cast iron (Spun) pipe is recommended.

A : Class LA

B : Class A

C : Class B

D : None of the above

Q : 37) As per IS : 456-2000, silica fume as part replacement of cement used in proportion of _____ of the cement content of a mix.

A : 0 to 2.5%

B : 2.5 to 5.0%

C : 5 to 10%

D : None of the above

Q : 38) On a curve, if stream function is constant, it is called _____

A : Equal potential line

B : Flow line

C : Any of the above

D : None of the above

**Q : 39) Intercept of total stress envelop
on vertical ordinate is called**

A : Cohesion

B : Normal stress

C : Angle of shearing resistance

D : None of the above

Q : 40) _____ diameter (in mm) of sewer laid at gradient of 1 in 120 to generate self cleaning velocity, will give a velocity of 0.79 m/sec.

A : 100

B : 150

C : 200

D : None of the above

Q : 41) In a line ranger, angle between diagonals of two right angled isosceles triangular prism is _____.

A : 45°

B : 60°

C : 90°

D : None of the above

Q : 42) Maximum shearing stress in a beam of circular section is _____

A : 1.5 times average shear stress

B : 1.5 times average shear stress

C : 1.33 times average shear stress

D : 1.2 times average shear stress

Q : 43) A member subjected to compression forces resulting only from combination with wind / earthquake actions, maximum effective slenderness ratio member should not exceed

A : 300

B : 180

C : 250

D : 350

Q : 44) A downgrade gradient followed by another downgrade makes

A : Valley curve

B : Summit curve

C : Either a valley curve or a summit curve

D : None of the above

Q : 45) If wind velocity at a height of 2 m above ground is 5 kmph, its value at a height of 9 m above ground can be expected to be in km/h about _____

- A : 2.3**
- B : 10.6**
- C : 6.2**
- D : 9.0**

Q : 46) A line in surveying used to prove accuracy of the frame work as well as that of plotting work is known as

_____.

A : Base line

B : Tie line

C : Check line

D : None of the above

Q : 47) _____ is not a tube well.

A : Open well

B : Cavity well

C : Slotted well

D : Perforated well

Q : 48) Wells, distribution system and filter plants during high interest time should be designed for _____.

A : 15 – 20 years

B : 2- - 25 years

C : 25 – 30 years

D : 10 – 15 years

Q : 49) Nominal maximum size of aggregate in a heavily reinforce concrete member should be restricted to

A : 5 mm less than the minimum clear distance between the main bars

B : 5 mm less than the minimum cover to the reinforcement

C : Smaller of the above

D : None of the above

Q : 50) Minimum grade of concrete recommended by IS : 456 : 2000 for reinforced concrete work in severe exposure condition is _____

A : M20

B : M15

C : M25

D : M30

Result : **SSC JE 2019**

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