

Q : 1 An aggregate is known as cyclopean aggregate If its size is more than:

- A : 4.75 mm
- B : 30 mm
- C : 60 mm
- D : 75 mm

Q : 2 Pick up the incorrect statement from the following

- A : Admixture accelerate hydration
- B : Admixture make concrete water proof
- C : Admixture make concrete acid proof
- D : Admixture give high strength

Q : 3 The durability of concrete is affected by:

- A : Cinder
- B : Vinegar
- C : Alcohol
- D : Both cinder and vinegar

Q : 4 Which of the following test is used for the bitumen?

- A : Slump test
- B : Abrasion test
- C : Penetration test
- D : Fineness test

Q : 5 Terracotta, in buildings, is used for-

- A : Insulation
- B : Ornamental work
- C : sewage lines
- D : Sanitary services

Q : 6 Connecting pipe in mm for septic tank should not be less than

- A : 150
- B : 100
- C : 50
- D : 25

Q : 7 steel corrodes in exposure of air and moisture and rust gas :

- A : 2.5 time the volume of steel
- B : 0.5 time the volume of steel
- C : Equal volume compared to amount of steel rusted.
- D : Twice the volume of steel

Q : 8 If R and T are rise and tread of a stair spanning horizontally and steps are supported by wall on one side and by stringer beam on the other side, the steps are designed as beam of width:

- A : $\frac{(R+T)}{2}$
- B : $R + T$
- C : $T - R$
- D : $\sqrt{R^2 + T^2}$

Q : 9 The detachment of the paint film from the surface is known as

- A : Chalking
- B : Cracking
- C : Flaking
- D : Wrinkling

Q : 10 A soil has liquid limit of 60%, plastic limit of 35%, shrinkage limit of 20% and it has a natural moisture concrete of 50% What is the liquidity index of the soil ?

- A : 0.4
- B : 0.6
- C : 1.5
- D : 1.3

Q : 11 The specific gravity of bitumen is :

- A : 2.09
- B : 0.8
- C : 0.9
- D : 1.09

Q : 12 If x, y and z are fineness moduli of coarse, fine and combined aggregate, the percentage (P) of fine aggregates to combined aggregate is

- I. $P = \frac{z-x}{z-y} \times 100$
- II. $P = \frac{x-z}{z-y} \times 100$
- III. $P = \frac{x-z}{z+y} \times 100$
- IV. $P = \frac{x+z}{z-y} \times 100$

- A : I only
- B : II only
- C : III only
- D : IV only

Q : 13 Plywood is obtained by gluing wooden sheets at a pressure of:

- A : 100 to 150 N/cm²
- B : 100 to 130 N/cm²
- C : Both (a) and (b)
- D : Neither (a) and (b)

Q:14 For which of the following process boucherie process is used ?

- A : Manufacturing of bricks
- B : Manufacturing of cement
- C : Production of clay tiles
- D : Treatment of green timber

Q : 15 The paints that are most resistant to fire are

- A : Enamel paints
- B : Aluminium paints
- C : Asbestos paints
- D : Cement paints

Q : 16 How many types of machine mixes of concrete are available?

- A : 2
- B : 5
- C : 6
- D : 3

Q : 17 A concrete in which dry coarse aggregate are first packed to have the least voids and then the cement sand mortar is injected under pressure to fill all the voids dense concrete, is known as _____.

- A : Pre-packed concrete
- B : Vacuum concrete
- C : No fines concrete
- D : Aerated concrete

Q:18 R.C.C. construction the maximum size of coarse aggregate is limited to

- A : 10 mm
- B : 15 mm
- C : 20 mm
- D : 25 mm

Q : 19 For the construction of cement concrete floor, the maximum permissible size of aggregates.

- A : 4 mm
- B : 6 mm
- C : 8 mm
- D : 10 mm

Q : 20 The plume behavior which occurs in the super adiabatic condition with light to moderate wind speed in the pressure of large scale thermal eddies are.

- A : Carrying plume
- B : Neutral plume
- C : Looping plume
- D : Fanning plume

Q : 21 Quick sand is a :

- A : Type of sand
- B : Flow condition occurring in cohesive soil
- C : Flow condition occurring in cohesion less soil
- D : All of these

Q : 22 The _____ soil transport by the gravitational forces.

- A : Alluvial soil
- B : Colluvial soil
- C : Loess
- D : Till

Q : 23 For routine consolidation test in laboratory, the thickness of the specimen is:

- A : 10 mm
- B : 20 mm
- C : 40 mm
- D : 60 mm

Q : 24 An air vessel is provided at the summit in syphon to:

- A : Increase velocity
- B : Maintain pressure difference
- C : Avoid interruption in the flow
- D : Increase discharge

Q : 25 The standard 5-day BOD at 20°, when compared to the ultimate BOD is

- A : 0.6
- B : 0.68
- C : 0.8
- D : 0.9