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Q : 1) The workability of concrete can be improved by:

A : More sand

B : More cement

C : More fine aggregate

D : Fineness of coarse aggregate

Q : 2) Density of concrete :

A : Increases with a decrease in the size of aggregate

B : Independent of the size aggregate

C : Increases with increase in the size of aggregate

D : All option are correct

Q : 3) Workability of concrete mix with low water cement ratio is determined by :

A : Slump test

B : Tensile strength test

C : Compaction factor test

D : Flexural strength test

**Q : 4) If the compaction factor is 0.95,
workability of concrete is:**

A : Very low

B : Low

C : Medium

D : High

Q : 5) Which of the following proportion of the ingredients of concrete mix, is not in conformation to arbitrary method of proportioning?

A : 0.0423842592592593

B : 0.0424074074074074

C : 0.0438194444444444

D : 0.0445601851851852

Q : 6) Concrete gains strength due to :

A : Chemical action of cement with coarse aggregate

B : Hydration of cement

C : Evaporation of water

D : All option are correct

Q : 7) Maximum shrinkage takes place in concrete after drying for :

A : 28 days

B : Three months

C : Six months

D : One year

Q : 8) Addition of calcium chloride in concrete results in :

A : Increased strength

B : Reduction in curing period

C : Retardation of loss of moisture

D : All option are correct

Q : 9) Modulus of elasticity for concrete improves by :

A : Shorter curing period

B : Age

C : Higher W.C. ratio

D : All option are correct

Q : 10) Minimum number of test specimens required for finding the compressive strength of concrete are :

A : 3

B : 5

C : 6

D : 9

Q : 11) Curing period is minimum for concrete using :

A : Rapid hardening cement

B : Low heat cement

C : Ordinary Portland cement

D : Slag cement

Q : 12) In a mix if the desired slump is not obtained, the adjustment for each concrete slump difference is made by adjusting water content by :

A : 0.0025

B : 0.005

C : 0.0075

D : 0.01

Q : 13) If the slump of concrete mix is 60 mm its workability is _____.

A : Low

B : Medium

C : High

D : very high

Q : 14) The durability of concrete is affected by :

A : Cinder

B : Vinegar

C : Alcohol

D : Both cinder and vinegar

Q : 15) For protection from frost, concrete should be ____.

A : Dense

B : Free form cracks

C : Adhesion between mortar and aggregate should be perfect

D : All the option are correct.

Q : 16) In order to have segregation in concrete dropping height should not less than _____.

A : 25 cm

B : 50 cm

C : 100 cm

D : 250 cm

Q : 17) Strength of concrete show an increase with _____.

A : Decrease in rate of loading

B : Increase in rate o loading

C : Unaffected by rate of loading

D : Depends on application of load

Q : 18) The minimum quantity of cement content that is needed in 1m^3 of a reinforced concrete which is not directly exposed to weather is about in kg :

A : 200

B : 250

C : 300

D : 350

Q : 19) Poisson's ratio for concrete

_____.

A : increases with richer mix

B : Decreases with richer mix

C : Remains constant

D : None of these

Q : 20) The last most suitable for concrete of very low workability is :

A : Slump test

B : Compaction factor test

C : Vee-Bee test

D : All option are correct

Q : 21) The Young's modulus of concrete (E_c) is gives by _____.

A : $1000 f_{ck}$

B : $5000 \sqrt{f_{ck}}$

C : $5000 f_{ck}$

D : $100 f_{ck}$

Q : 22) Pick up the correct statement from the following :

A : The concrete gains strength due to hydration of cement.

B : The concrete cured at a temperature below 23°C, gains strength up to 28 days

C : The concrete does not set a freezing point.

D : All options are correct

Q : 23) Pick up the correct statement from the following :

A : Higher workability indicated unexpected increase in the moisture content.

B : Higher workability indicated deficiency of sand

C : If the concrete mix is dry, the slump is zero.

D : All option are correct.

Q : 24) What is the maximum period for which the lime concrete in foundation be left wet without the start of masonry work over it?

A : 3 days

B : 5days

C : 7 days

D : 15 days

Q : 25) The lower water-cement ratio in concrete produces_____.

A : More density

B : Small creep and shrinkage

C : More bond

D : All option are correct

Q : 26) If 1500 g of water is required to have a cement paste 1875 g of normal consistency the percentage of water is

A : 0.2

B : 0.25

C : 0.3

D : 0.35

Q : 27) The impurity of mixing water which affects the setting time and strength of concrete is_

A : sodium sulphates

B : sodium chloride

C : sodium carbonates and bicarbonates

D : calcium chlorides

Q : 28) Inert material of a cement concrete mix is _____.

A : Water

B : Cement

C : Aggregate

D : None of these

Q : 29) The datum temperature for maturity by Plowman, is-

A : 23°C

B : 0°

C : -5.6°C

D : -11.7°

Q : 30) Which of the below is an example of plasticizer ?

A : Hydroxylated carboxylic acid

B : Flouro-silicate

C : Gypsum

D : Surkhi

Q : 31) Which of the following statement is false?

A : Workability of the concrete mix decreases with an increase in the moisture content.

B : Concrete for which preliminary tests are conducted, is called controlled concrete.

C : Bulking of sand depends upon the fineness of grains.

D : All options are correct

Q : 32) The operation of removing humps and hollows of uniform concrete surface is known as_____.

A : Floating

B : Screeding

C : Troweling

D : Finishing

Q : 33) In a slump test, each layer of concrete is compacted by steel rod 60 cm long and of 16 mm diameter for

A : 20 times

B : 25 times

C : 30 times

D : 40 times

Q : 34) The shuttering of hall measuring $4\text{m} \times 5\text{m} \times$ can be removed after :

A : 5 days

B : 7 days

C : 10 days

D : 14 days

Q : 35) For compacting plain concrete road surface o thickness less than 20 cm, we use

A : Internal vibrator

B : Screed vibrator

C : From vibrator

D : None of these

Q : 36) How many types of chemical admixture are there?

A : 2

B : 3

C : 4

D : 5

Q : 37) Which is the best method for curing of concrete flat surfaces/

A : Spraying water

B : Placing wet gummy bags

C : Stagnating water

D : None of these

Q : 38) Compaction factor for heavily reinforced section with vibration is:

A : 0.75

B : 0.75 - 0.85

C : 0.85 - 0.92

D : > 0.92

Q : 39) Which of the following statements is/ are true?

A : The diameter of pipe line used for transportation of concrete by pumps does not exceed 30 cm.

B : The slump of the concrete to be pumped, should not be less than 5 cm and more than 8 cm.

C : The water cement ratio of concrete to be pumped is kept between 0.5 to 0.65

D : All of these

Q : 40) What is the ratio (approximate) of 7 days and 28 days strength of cement concrete

A : 0.45

B : 0.65

C : 0.95

D : 1.15

Q : 41) The accumulation of water on outer surface of concrete is

A : Transpiration

B : Blending

C : Guttation

D : Ponding

Q : 42) Sand requiring a high water cement ratio, belongs to

A : Zone I

B : Zone II

C : Zone III

D : Zone IV

Q : 43) Which of the following statements is true?

Impermeability is a property of fresh concrete

Impermeability is a not property of fresh concrete

Impermeability is nothing to do with concrete at all

A : Only A

B : Only B

C : Only C

D : None of these

Q : 44) How many types of machine mixes of concrete are available?

A : 2

B : 5

C : 6

D : 3

Q : 45) The dynamic modulus of elasticity of sample of concrete is compared in ____.

A : Compressive test

B : Split test

C : Tension test

D : Ultrasonic pulse velocity test

Q : 46) In small works, concrete is transported using

A : Conveyor belts

B : Pumps

C : Pans

D : Buckets

Q : 47) _____ are used to press mortar and spread it uniformly.

A : Trowel

B : Aluminium rod

C : Floats

D : Brush

Q : 48) If the size of specimen used to test the compressive strength of concrete will

A : Decrease

B : Do not affected

C : First decreases then increases

D : Increases

Q : 49) Workability of concrete for a given water content is good if the aggregate are

A : Rounded aggregate

B : Irregular aggregate

C : Angular aggregate

D : Flaky aggregate

Q : 50) steam curing of concrete is adopted for

A : Precast structure

B : columns

C : Beams

D : Walls



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