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Q : 1) Crushing strength of a good building stone should be more than :

A : 50 MPa

B : 100 MPa

C : 150 MPa

D : 200 MPa

Q : 2) A stone is rejected if it absorbs water more than

A : 5%

B : 10%

C : 20%

D : 25%

Q : 3) The percentage of alumina in a good brick earth lies between

A : 5 to 10%

B : 20 to 30%

C : 50 to 0%

D : 70 to 80%

Q : 4) Chemically, marble is known as

A : Metamorphic rock

B : Argillaceous rock

C : calcareous rock

D : Siliceous rock

Q : 5) King closers are related to:

A : Doors and windows

B : King post truss

C : Queen post truss

D : Brick masonry

Q : 6) King closers are related to:

A : doors and windows

B : King post truss

C : Queen post truss

D : Brick masonry

Q : 7) Water absorption of class I brick after 24 hours of immersion in water should not exceed _____ of self-weight

A : 25%

B : 18%

C : 20%

D : 22%

Q : 8) Out of the following, which may be termed as an unstratified rock?

A : Sandstone

B : Limestone

C : Marble

D : Slate

Q : 9) For the manufacture of Portland cement, the proportions of raw materials used are

A : Lime 63%, silica 22% and others 15%

B : Lime 70%, silica 20% and others 10%

C : Lime 40%, silica 40% and others 20%

D : None of the above

**Q : 10) Under heat and pressure,
granite can transform into**

A : Quartzite

B : Marble

C : Slate

D : Gneiss

Q : 11) The shape of the brick gets deformed due to rain water falling on hot brick. The defect is known as

A : Chuffs

B : Bloating

C : Nodules

D : Lamination

Q : 12) The commonly used lime in whit washing is:

A : Quick lime

B : Fat lime

C : Lean lime

D : Hydraulic lime

Q : 13) Specific gravity of OPC is generally

A : 4.92

B : 3.15

C : 2.10

D : 1.75

Q : 14) Low workability of concrete conforms to a slump of :

A : 25-75 mm

B : 50-100 mm

C : 75-100 mm

D : 100-150 mm

Q : 15) Hardness of the rock can be tested in situ using

A : Smith's test

B : Schmidt hammer test

C : Acid test

D : Crystallization test

Q : 16) In ordinary cement about 99% of its final strength is achieved in

A : 3 days

B : 7 days

C : 28 days

D : 1 years

Q : 17) The soundness test of cement by Le-chatelier's apparatus gives unsoundness due to :

A : Free lime only

B : Magnesia only

C : Both free lime and magnesia

D : None of these

Q : 18) The ratio of various ingredients (cement, sand, aggregate) in concrete of grade M20 is:

A : 1 : 2 : 4

B : 1 : 3 : 4

C : 1 : 1.5 : 3

D : 1 : 1 : 2

Q : 19) Basalt stone is by nature :

A : metamorphic

B : Volcanic

C : Plutonic

D : Sedimentary

Q : 20) Plaster of Paris is obtained by calcining

A : Bauxite

B : Gypsum

C : Kankar

D : Limestone

Q : 21) In ordinary Portland cement, the first one to react with water is:

A : C_3A

B : C_2S

C : C_3S

D : C_4AF

Q : 22) The compressive strength of common building bricks should not be less than

A : 3.5 N/mm²

B : 5.5 N/mm²

C : 7.5 N/mm²

D : 10.5 N/mm²

Q : 23) Workability of concrete is directly proportional to:

- (i) Time of transit**
- (ii) Water cement ratio**
- (iii) Grading of aggregate**
- (iv) Strength of concrete**
- (v) Aggregate cement ratio**

A : (iii), (iv), (v)

B : (i), (ii), (iv)

C : (ii), (iii), (v)

D : (ii), (iii)

Q : 24) 28 day crushing strength of cement is tested on 70.7 mm size cubes of mortar having cement to sand proportion of

A : 1 : 5

B : 1 : 2

C : 1 : 3

D : 1 : 4

Q : 25) For the manufacture of Portland cement the proportions of raw material used are-

A : Lime 63%; silica 22%; other ingredients 15%

B : Silica 2%; lime 63%; other ingredients 15%

C : Silica 40%; lime 40%; other ingredients 40%

D : Silica 70%; lime 20%; other ingredients 20%

Q : 26) Gypsum used in cement manufacturing acts as:

A : Accelerator

B : Air entraining agent

C : Plasticizer

D : Retarder

Q : 27) The standard consistency test is done in a:

A : Blaine's apparatus

B : Le-Chatelier's apparatus

C : vane apparatus

D : Vicat's apparatus

Q : 28) Separation of water or water sand cement from a freshly mixed concrete is known as

A : Segregation

B : Flooding

C : Bleeding

D : Creeping

Q : 29) Which of the following statement is correct?

A : Excess of alumina in the clay makes the brick brittle and weak

B : Excess of alumina in the clay makes the brick crack and warp on drying

C : Excess of alumina in the clay leaves high power deposit on the brick

D : Excess of alumina in the clay improves impermeability and durability of brick

Q : 30) Good Variety of cement contains higher percentage of

A : Tricalcium silicate

B : Tricalcium aluminate

C : Dicalcium silicate

D : None of the above

Q : 31) The diameter of the Vicat plunger is 10 mm and its length varies from-

A : 20 mm to 30 mm

B : 30 mm to 40 mm

C : 40 mm to 50 mm

D : 50 mm to 60 mm

Q : 32) The fineness of cement can be found out by sieve analysis using IS sieve number :

A : 20

B : 10

C : 9

D : 6

Q : 33) The characteristic strength of concrete is defined as the compressive strength below which not more than

A : 2% of result fall

B : None of these

C : 10% result fall

D : 5% of result fall

Q : 34) maximum admissible water-cement ratio for mild environmental exposure should be:

A : 0.55

B : 0.55

C : 0.45

D : 0.40

Q : 35) The bottom diameter, top diameter and the height of the steel mould used for slump test are respectively

A : 20 cm, 30 cm & 10 cm

B : 10 cm, 30 cm & 20 cm

C : 20 cm, 10 cm & 30 cm

D : 10 cm, 20 cm & 30 cm

Q : 36) The concrete mix design is conducted as per :

A : IS 10262

B : IS : 13920

C : IS : 383

D : IS : 456

Q : 37) The Indentation provided in the face of the brick is called

A : Frog

B : Pallet

C : Strike

D : None of these

Q : 38) To prevent sulphate attack in concrete, for preparing concrete mix, water pH must be within :

A : 7 – 10

B : 4 – 6

C : 5 – 7

D : 6 – 9

Q : 39) Increase in the moisture content in concrete

A : Reduces the strength

B : Increases the strength

C : Does not change the strength

D : None of these

Q : 40) As per IS : 456 – 2000; the organic content of water used for making concrete should not be more than

A : 200 mg/l

B : 250 mg/l

C : 100 mg/l

D : 150 mg/l

Q : 41) Water cement ratio is generally expressed volume of water required per

A : 10 kg cement

B : 20 kg cement

C : 50 kg cement

D : 40 kg cement

Q : 42) The workability of concrete is influenced most by its

A : Water-cement ratio

B : Aggregate cement ratio

C : Cement content

D : Water content



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