

Q: 1 A bull nose brick is not used for ____.

- OP 1 : Rounding off sharp corners
- OP 2 : Pillars
- OP 3 : Decoration purpose
- OP 4 : Arches

Q: 2 When a brick is cut into two halves longitudinally, one part is called :

- OP 1 : King closer
- OP 2 : Cornice brick
- OP 3 : Queen closer
- OP 4 : Voussoir

Q: 3 If the depth of moist sand in a cylinder is 15 cm and the depth of the sand when fully inundated with water is 12 cm, then what is the bulking of the moist sand?

- OP 1 : 0.1
- OP 2 : 0.2
- OP 3 : 0.15
- OP 4 : 0.25

Q: 4 If 't' is the thickness of MS plate in mm, the standard weight (in kg) of the MS plate per sq. meter is:

- OP 1 : 5.87 t
- OP 2 : 7.85 t
- OP 3 : 8.75 t
- OP 4 : 8.57 t

Q: 5 The total number of links provided in a Gunter's chain is

- OP 1 : 132
- OP 2 : 100
- OP 3 : 66
- OP 4 : 50

Q: 6 The grain size (mm) of medium grained sand lies between ____.

- OP 1 : 0.425 to 0.075
- OP 2 : 2.0 to 0.425
- OP 3 : 4.75 to 2.0
- OP 4 : 20 to 4.75

Q: 7 A turbidimeter using blue cobalt palte is :

- OP 1 : Jackson turbidimeter
- OP 2 : Baylis turbidimeter
- OP 3 : Tube turbidimeter
- OP 4 : Plate turbidimeter

Q: 8 Asbestos is:

- OP 1 : A corrugated sheet used for roofing.
- OP 2 : An incombustible fireproof material
- OP 3 : An organic substance
- OP 4 : All the above

Q: 9 If the stopping distance and average length of a vehicle are 18 m and 6 m respectively, then the theoretical maximum capacity (vehicles per hour) of a traffic lane at a speed of 10 m/sec is:

- OP 1 : 1500
- OP 2 : 2000
- OP 3 : 2500
- OP 4 : 3000

Q: 10 Which one of the following is used as a carrier in paint?

- OP 1 : Almond oil
- OP 2 : Linseed oil
- OP 3 : Mustard oil
- OP 4 : Olive oil

Q: 11 The ingredient of paint which are used to hide the surface irregularities and imparts color is known as ____.

- OP 1 : Adultrants
- OP 2 : Drier
- OP 3 : Pigments
- OP 4 : Solvents

Q: 12 The distemper is used to coat :

- OP 1 : External concrete surface
- OP 2 : Interior surface not exposed to weather
- OP 3 : Woodwork
- OP 4 : Compound walls

Q: 13 The operation of removing humps and hollows of uniform concrete surface is known as :

- OP 1 : Floating
- OP 2 : Screeding
- OP 3 : Trowelling
- OP 4 : Finishing

Q: 14 Resins are:

- OP 1 : Not soluble in water
- OP 2 : Soluble in spirit
- OP 3 : Used in varnishes
- OP 4 : All of above

Q: 15 The amount of standard soap solution required to obtain a permanent lather with a water sample of known volume with constant shaking determines the total hardness in:

- OP 1 : Dr. Clark's process
- OP 2 : Hehner's process
- OP 3 : William's process
- OP 4 : Durkheim's process

Q: 16 Which one is the correct order of the tapes based on their accuracy?

- OP 1 : Linen tape > Invar tape > Metallic tape > Steel tape
- OP 2 : Invar tape > Steel tape > Metallic tape > linen tape
- OP 3 : Metallic tape > steel tape > Linen tape > Invar tape
- OP 4 : Metallic tape > Steel tape > Invar tape > linen tape

Q: 17 For one cubic meter of concrete (1 : 2 : 4), the number of cement bags required is

- OP 1 : 4.5
- OP 2 : 5
- OP 3 : 5.3
- OP 4 : 6.3

Q: 18 Break point' in break point chlorination curve is a point for which the residual chlorine for an applied dose of chlorine is :

- OP 1 : Maximum
- OP 2 : Minimum
- OP 3 : zero
- OP 4 : In the stage when chlorination of water should be stopped

Q: 19 The value which protect the water meter from the damages of water hammer :

- OP 1 : Pressure relief valve
- OP 2 : Stop cock
- OP 3 : Reflux value
- OP 4 : Water hammer valve

Q: 20 The commonly used thinner in oil paints is :

- OP 1 : Naptha
- OP 2 : Turpentine
- OP 3 : Both (a) and (b)
- OP 4 : Neither (a) and (b)

Q: 21 The ultimate tensile strength of the structural mild steel is :

- OP 1 : 160 N/mm²
- OP 2 : 260N/mm²
- OP 3 : 420 N/mm²
- OP 4 : 520 N/mm²

Q: 22 Putty is made up of:

- OP 1 : Red lead and linseed oil
- OP 2 : Zinc oxide and boiled linseed oil
- OP 3 : White lead and turpentine
- OP 4 : Powdweed chalk and raw linseed oil

Q: 23 Which of the following is the main composition of granite?

- OP 1 : Quartz, feldspar and mica
- OP 2 : Quartz and lime
- OP 3 : Quartz and silica
- OP 4 : Silica, lime and alumina

Q: 24 Pick cross sections for a highway is taken at_____

- OP 1 : Right angle to the center line
- OP 2 : 30 meters apart
- OP 3 : Intermediate points having abrupt change in gradient
- OP 4 : All option are correct

Q: 25 A stone is rejected if it absorbs water more than

- OP 1 : 0.05
- OP 2 : 0.1
- OP 3 : 0.2
- OP 4 : 0.25

Q: 26 Bitumen in

- OP 1 : Solid state is called asphalt
- OP 2 : Semifluid state is called mineral tar
- OP 3 : Fluid state is called petroleum
- OP 4 : All of the above

Q: 27 Difference in length of an arc and its subtended chord on earth's surface a distance of 18.2 km is-

- OP 1 : 10 mm
- OP 2 : 15 mm
- OP 3 : 22 mm
- OP 4 : 100 mm

Q: 28 Geologic cycle for the formation of soil, is_____.

- OP 1 : Upheaval - Transportation - Deposition - Weathering
- OP 2 : Weathering - Upheaval - Transportation - Deposition
- OP 3 : Transportation - Upheaval - Weathering - Deposition
- OP 4 : Weathering - Transportation - Deposition - Upheaval

Q: 29 Which of the following statement is CORRECT for estimating the corrected area from a map of shrunk factor 'F'?

- OP 1 : It is directly proportional to F
- OP 2 : It is directly proportional to square of F
- OP 3 : It is inversely proportional to F
- OP 4 : It is inversely proportional to square of F

Q: 30 Nitrates more than 45 mg/l in water lead to disease called:

- OP 1 : Gwastroenteritis
- OP 2 : Mottled teeth
- OP 3 : Polio
- OP 4 : None of these

Q: 31 The total water requirement of a city is generally assessed on the basis of:

- OP 1 : Maximum hourly demand
- OP 2 : Maximum daily demand + fire demand
- OP 3 : Average daily demand + fire demand
- OP 4 : Greater of (a) and (b)

Q: 32 The ratio of discharge and plan area of a continuous flow type setting tank is known as

- OP 1 : Surface loading
- OP 2 : Overflow
- OP 3 : Overflow rate
- OP 4 : All of above

Q: 33 Out of the following, which may be termed as an unstratified Rock?

- OP 1 : Sandstone
- OP 2 : Limestone
- OP 3 : Marble
- OP 4 : Slate

Q: 34 Capillary pores in the hydrated cement paste:

- OP 1 : Are not interconnected and contain adsorbed water
- OP 2 : Are interconnected and may not contain water
- OP 3 : Are interconnected and contain water that can be used for subsequent hydration of cement
- OP 4 : Are not interconnected but contain some quantity of gel water.

Q: 35 Strength based classification of bric is made on the basis of :

- OP 1 : IS : 3101
- OP 2 : IS : 3102
- OP 3 : IS : 3495
- OP 4 : IS : 3496

Q: 36 Calculate the number of bricks required for a 5 cubic metre brick wall/

- OP 1 : 250
- OP 2 : 600
- OP 3 : 1500
- OP 4 : 2500

Q: 37 If the void ratio and discharge velocity for soil is 0.5 and $6 \times 10^{-7} \times 10^{-7} \text{ m/s}$ respectively, what is the value of seepage velocity (m/s)?

- OP 1 : $3 \times 10^{-7} \times 10^{-7}$
- OP 2 : $6 \times 10^{-7} \times 10^{-7}$
- OP 3 : $12 \times 10^{-7} \times 10^{-7}$
- OP 4 : $18 \times 10^{-7} \times 10^{-7}$

Q: 38 Snow create is one of the patent forms of

- OP 1 : Distemper
- OP 2 : Water proof cement paint
- OP 3 : Enamel paint
- OP 4 : Cellulose paint

Q: 39 Which of the following shows the correct order of increasing surface areas of the given soil?

- OP 1 : Clay < silt < sand < colloids
- OP 2 : Gravel < silt < colloids < clay
- OP 3 : Sand < silt < clay < colloids
- OP 4 : Silt < gravel < colloids < clay

Q: 40 What is the surface area (m^2) of the setting tank used for design discharge of $1.5 \text{ m}^3/\text{s}$? (Assume depth overflow rate for tank as $40 \text{ m}^3/\text{m}^2/\text{day}$)

- OP 1 : 2045.32
- OP 2 : 3240.44
- OP 3 : 4525.33
- OP 4 : 5076.13

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Q: 41 Which of the following statements is true?

OP 1 : Addition of pozzolana to cement decreases workability
OP 2 : Addition of pozzolana to cement increases strength
OP 3 : Addition of pozzolana to cement increases heat of hydration
OP 4 : None of these

Q: 42 Which of the following is used as the vehicle in the enamel paints?

OP 1 : Linseed oil
OP 2 : Mustard
OP 3 : Varnish
OP 4 : Water

Q: 43 For bituminous materials, vacuum capillary viscometers are used for the determination of:

OP 1 : Absolute viscosity
OP 2 : Industrial viscosity
OP 3 : Both the above
OP 4 : None of these

Q: 44 The viscosity and unit-weight of the percolating fluid are reduced to 5% and 95% respectively due to rise in temperature. If other thing remains constant, the coefficient of permeability will be:

OP 1 : Increased by 26%
OP 2 : Increased by 53%
OP 3 : 0.343
OP 4 : None of these

Q: 45 Determine the number of divisions required on the vernier scale, if it is combined with the main scale of least count 0.5 mm. The least count of the combination required is 0.05 mm for the direct vernier.

OP 1 : 0.025
OP 2 : 0.1
OP 3 : 1
OP 4 : 10

Q: 46 The meniscus and dispersing agent corrections, in the hydrometer analysis, respectively are :

OP 1 : Positive and negative
OP 2 : Negative and positive
OP 3 : positive and positive
OP 4 : Negative and negative

Q: 47 Chemically, marble is known as

OP 1 : Metamorphic rock
OP 2 : Argillaceous rock
OP 3 : Calcareous rock
OP 4 : Siliceous rock

Q: 48 The ratio of liquid limit to plasticity index for a soil mass is called :

OP 1 : Liquidity index
OP 2 : Shrinkage ratio
OP 3 : Consistency index
OP 4 : None of the above

Q: 49 The shape of the brick gets deformed due to rain water falling on hot brick. The defect is known as ____.

OP 1 : Chuffs
OP 2 : Bloating
OP 3 : Nodules
OP 4 : Lamination

Q: 50 Pick up the incorrect statement :

OP 1 : Sluice valves are provided to allow flow of water only in one direction, preventing backflow
OP 2 : Air valves are provided at summits along a pipeline to admit/release air
OP 3 : scour valves are provided at low points to empty a pipeline
OP 4 : Gate valves are provided to regulate flow of water through the pipelines

Q: 51 The sub classification of sedimentary rocks

OP 1 : Volcanic and plutonic
OP 2 : Mechanical, chemical, organic
OP 3 : Intrusive, extrusive
OP 4 : Stratified, unstratified

Q: 52 Bitumen emulsion is :

OP 1 : Liquid containing bitumen in suspension
OP 2 : Paint
OP 3 : Used as anti corrosive paint
OP 4 : All of these

Q: 53 If the soil sample is having porosity 50% and degrees of saturation at 90% then its percentage air voids is :

OP 1 : 0.05
OP 2 : 0.5
OP 3 : 0.45
OP 4 : 0.045

Q: 54 According to atterberg, the soil is said to be of medium plasticity index (PI) is :

OP 1 : $0 < PI < 7$
OP 2 : $7 \leq PI \leq 17$
OP 3 : $17 < PI < 27$
OP 4 : $PI \geq 27$

Q: 55 A layer of dry bricks put below the foundation concrete, in the case of soft soils, is called:

OP 1 : Soling
OP 2 : Shoring
OP 3 : D.P.C.
OP 4 : None of these

Q: 56 Rocks having alumina or clay as their major constituent are called

OP 1 : Siliceous rocks
OP 2 : Argillaceous rocks
OP 3 : Sedimentary rock
OP 4 : None of these

Q: 57 Which one of the following sequences is the most suitable for treating raw surface water to make it suitable for drinking purpose?

OP 1 :
Screening → filtration → sedimentation → disinfection

OP 2 :
Screening → disinfection → sedimentation → filtration

OP 3 :
Screening → sedimentation → disinfection → filtration

OP 4 :
Screening → sedimentation → filtration → disinfection

Q: 58 An explosive which contains: 65% saltpetre, 20% sulphur and 15% charcoal is

OP 1 : Dynamite
OP 2 : Nitrocellulose
OP 3 : Blasting powder
OP 4 : Cordite

Q: 59 The penetration test on bitumen is used for determining its ____

OP 1 : Grade
OP 2 : Ductility
OP 3 : Viscosity
OP 4 : None of these

Q: 60 In ordinary Portland cement, the first one to react with water is :

- OP 1 : C_3AC_3A
- OP 2 : C_2SC_2S
- OP 3 : C_3SC_3S
- OP 4 : C_4AFC_4AF

Q: 61 The shape of the STOP sign according to IS: 67-2001 is

- OP 1 : Circular
- OP 2 : Triangular
- OP 3 : Rectangular
- OP 4 : Octagonal

Q: 62 What is the psychological widening of a pavement on horizontal curve of radius 230m for ruling speed 80 kmph?

- OP 1 : 0.455m
- OP 2 : 0.555m
- OP 3 : 0.186m
- OP 4 : 0.136m

Q: 63 Select cement out of the following which may be used in mass concrete construction?
I. Low heat Portland cement
II. Portland blast furnace slag cement
III. Portland pozzolana cement
IV. Rapid hardening Portland cement

The correct answer is

- OP 1 : Only I
- OP 2 : I and II
- OP 3 : I, II and III
- OP 4 : All

Q: 64 correction per chain length of 100 links along a slope of α is

- OP 1 : $1.5\alpha^2/100$
- OP 2 : $1.5\alpha/100$
- OP 3 : $1.5\alpha^3/100$
- OP 4 : $1.5\alpha^3$

Q : 65 Clay bricks are made of earth having:

- OP 1 : Nearly equal proportion of silica & Alumina
- OP 2 : Nearly equal proportion of Alumina, Silica & Lime
- OP 3 : 35 - 70% silica and 10 - 20% alumina
- OP 4 : 10 - 20% silica and 35 - 70% alumina



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