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Q :) Frog is defined as a

A : Depression Depression on the top face of brick

B : Top most course of plinth

C : Brick whose one end is cut splayed or mitered for the full width

D : Brick used for the corner of a wall

Q:) Which of the following constituent when present in excess quantity, changes the colour of the brick from red to yellow:

A : alumina

B : Silica

C : Alkalies

D : lime stone

Q:) Which of the following test is used to estimate soundness of ordinary Portland Cement?

A : Le Chatelier's

B : Abram's slump cone test

C : Flow table test

D : Mortar bar test

Q:) Fly ash is residue generated from

A : Chemical Industries

B : Hydel power plants

C : Nuclear power plants

D : Thermal power plants

Q:) Four main oxides present in ordinary Portland cement are CaO , Al_2O_3 , SiO_2 and Fe_2O_3 , Identify the correct ascending order of their proportions in a typical composition of OPC

A : Al_2O_3 , Fe_2O_3 , CaO , SiO_2

B : Al_2O_3 , CaO , Fe_2O_3 , SiO_2

C : Fe_2O_3 , Al_2O_3 , SiO_2 , CaO

D : Al_2O_3 , Fe_2O_3 , CaO , SiO_2

Q:) Final setting time of OPC.....should not greater than:

A : 10 hrs.

B : 8 hrs.

C : 6 hrs.

D : None of the above

Q:) The setting time of cement can be increased by the addition of

A : Sodium

B : Gypsum

C : Calcium chloride

D : Hydrogen peroxide

Q:) The normal consistency of ordinary Portland cement is about

A : 10%

B : 20%

C : 30%

D : 40%

Q:) For testing the compressive and the tensile strength to cement. The cement mortar is made by mixing cement and standard sand in the proportion of

A : 1 : 2

B : 1 : 3

C : 1 : 4

D : 1 : 6

Q:) The aggregate which pass through 4.75 mm IS sieve and entirely retain on 75 micron IS sieve is called

A : Cycloopen aggregate

B : Coarse aggregate

C : Fine aggregate

D : All in aggregate

Q:) Grading of aggregate in the concrete mix is necessary to achieve

A : Adequate workability

B : Higher density

C : Reduction in voids

D : Better durability

Q:) The advantage of adding piezocones to lime is

A : To reduce shrinkage

B : Increase resistance to cracking

C : Increase resistance to chemical attack

D : All the above

Q:) Consider the following methods of preservation of timber

A : Pressure application

B : Brush application

C : Dipping

D : Open tank application

Q:) The radial splits which are wider on the outside of the log and narrower towards the pith are known as:-

A : Heart shakes

B : Cup shakes

C : Star shakes

D : Rind galls

Q:) The liquid limit of a soil mass is 20% and the plasticity limit is 25%, then the plasticity index of the soil mass is

A : 5

B : -5

C : 0 (PI always ≥ 0)

D : None of these

Q:) The water content in a soil sample when it continues to loose weight without loosing the volume is called

A : Shrinkage limit

B : Plastic limit

C : Liquid limit

D : Semi-liquid limit

Q:) In hydrometer analysis a soil mass

A : Both meniscus correction and dispersing agent correction are additive

B : Both meniscus correction and dispersing agent correction are subtractive

C : Meniscus correction is additive and dispersing agent correction is subtractive

D : Meniscus correction is subtractive and dispersing agent correction is additive

Q:) Grain size of a soil indicated that $D_{10} = 0.005$ mm. $D_{30} = 0.003$ mm and $D_{60} = 0.006$ mm. The uniformity coefficient of the soil is

A : 0.5

B : 2.0

C : 6.0

D : 1.2

Q:) In a soil specimen 70% of soil particles are passing through 4.75 mm I.S. sieve and 40% of particles are passing through 75 micron sieve uniformity coefficient is 8 and coefficient of curvature is 2. As per I.S. classification this soil is classified as

A : SP

B : GP

C : SW

D : GW

Q:) The free fall of hammer for compaction of soil in standard proctor test is-

A : 10.5 cm

B : 20.5 cm

C : 30.5 cm

D : 40.5 cm

Q:) The wall friction of the retaining wall

A : Decrease active earth pressure but increase passive earth pressure

B : Decrease passive earth pressure but increase active earth pressure

C : Decrease both active and passive earth pressure

D : Increases both active and passive earth pressure

Q:) A 600 mm square bearing plate settles by 15 mm in plate load test on a cohesion less soil under an intensity of loading of 0.2 N/mm^2 . The settlement of a prototype shallow footing 1 m square under the same intensity of loading

A : 15 mm

B : Between 15 mm to 25 mm

C : 25 mm

D : Greater than 25 mm

Q:) The liquid used in manometers should have

A : Low density

B : High density

C : Low surface tension

D : High surface tension

Q:) Venturimeter is used to measure :

A : The velocity of a flowing liquid

B : The pressure of a flowing liquid

C : The discharge of liquid flowing through a pipe

D : The pressure difference of liquid flowing between two points in a pipe line

Q:) The flow in a pipe is neither laminar nor turbulent when the Reynold's number is:

A : Less than 2000

B : Between 2000 and 2800

C : More than 2800

D : None of the above

Q:) If a composite bar of steel and copper is heated, the copper bar will be under

A : Tension

B : Compression

C : Shear

D : Torsion

Q:) For an isotropic, homogeneous and elastic material obeying Hooke's law, number of independent elastic constant is

A : 2

B : 3

C : 9

D : 1

Q:) A Prismatic beam fixed at both ends carries a uniformly distributed load. The ratio of bending moment at supports to the bending moment of mid span

A : 0.5

B : 1.0

C : 1.5

D : 2.0

Q:) Maximum bending moment in a beam occurs where

(a) Deflection is zero

B : Shear force is maximum

C : Shear force is minimum

D : Shear force changes sign

Q:) The slenderness ratio of column is zero when

(a) Its length is exactly equal to the radius of gyration

B : Its length is half the radius of gyration

C : Total load carried is less than half the dead weight

D : If the length is supported on all sides throughout its length



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