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Q : 1) The submerged weight of soil solids per unit volume is _____

A : Saturated unit weight

B : Dry unit weight

C : Wet unit weight

D : Buoyant unit weight

Q : 2) What is the capacity of density bottle used generally for determination of specific gravity of fine grained soil in the laboratory as per IS 2720 (Part 3/sec-1)-1980?

A : 200 ml

B : 150 ml

C : 50 ml

D : 100 ml

Q : 3) A unit phase diagram is normally divided into three parts. What does the top, middle and bottom part represent?

A : Solid, water and air respectively ‘

B : Water, air and solid respectively

C : Air, water and solid respectively

D : Air, solid and water respectively

Q : 4) Lacustrine solids are those which are :

A : Deposited in sea beds

B : Deposited in lake beds

C : Transported by rivers and streams

D : Transported by wind

Q : 5) Out of the cohesion limit, sticky limit, liquid limit, plastic limit and shrinkage limit, the most important in engineering practices are :

A : Cohesion limit, plastic limit, shrinkage limit and sticky limit

B : Liquid limit, plastic limit, shrinkage limit

C : Plastic limit, shrinkage limit and cohesion limit

D : Cohesion limit, plastic limit and liquid limit

Q : 6) Identify the method that is NOT used for determination of in situ unit weight of a natural soil deposit?

A : Core cutter method

B : Sand bath method

C : Water displacement method

D : Sand replacement method

Q : 7) The diameter of the sieve used for finding liquid limit is _____.

A : 125 microns

B : 425 microns

C : 250 microns

D : 375 microns

Q : 8) _____ soil cannot achieve the plastic state of consistency.

A : Clay

B : Coarse grained

C : Silt

D : Fine grained

Q : 9) The unified soil classification system was originally developed by

A : Atterberg

B : Casagrande

C : Terzaghi

D : Mohr

Q : 10) The ratio of plasticity index and flow index is known as

A : Liquidity index

B : Shrinkage index

C : Toughness index

D : Consistency index

Q : 11) The ratio of compressive strength of material saturated with water to that in dry state is known as :

A : Coefficient of thixotropy

B : Coefficient of softening

C : Coefficient of compressibility

D : Coefficient of hardness

Q : 12) For standard compaction test done on soil, the mass of hammer and drop of the hammer are:

A : 2.60 kg and 310 mm

B : 2.60 kg and 450 mm

C : 5.40 kg and 450 mm

D : 4.80 kg and 310 mm

Q : 13) Which of the following is NOT correct about the effects of compaction of soil?

A : Compaction increases shear and bearing strength of soil

B : Compaction decreases the tendency for settlement of soil

C : Compaction increase the permeability of soil

D : Compaction increases the frictional characteristics of soil

Q : 14) Which of the following is a method used in a field to determine the permeability of soil?

A : Pumping out if well method

B : Oedometer test

C : Constant head permeameter method

D : Falling head permeameter method

Q : 15) Consider different types of soils i.e. fine sand (F), homogeneous clay (C), coarse gravel (G), silty clays (S). Arrange the soils in the increasing order of their permeability (low to high values).

A : C, F, S, G

B : S, C, F, G

C : C, S, F, G

D : S, C, G, F

Q : 16) According to Terzaghi and peck the ratio of D15 size of filter material to the D85 size of the base material should be :

A : < 10

B : < 15

C : < 4

D : < 25

Q : 17) Piston and spring analogy method was demonstrated by Terzaghi for which of the following processes?

A : Soil particle graduation

B : Consolidation

C : Permeability

D : Compaction

Q : 18) In a consolidation test, when the load is changed from 50 kN/m^2 to 100 kN/m^2 , then the void ratio changes from 0.80 to 0.60. The coefficient of compressibility will be:

A : $0.004 \text{ m}^2/\text{kN}$

B : $0.003 \text{ m}^2/\text{kN}$

C : $0.002 \text{ m}^2/\text{kN}$

D : $0.001 \text{ m}^2/\text{kN}$

Q : 19) A normally consolidated clay layer settled by 20 mm when the effective stress was increased from 25 to 50 kN/m². What will be the settlement when the effective stress is increased from 50 to 100 kN/m²?

A : 40 mm

B : 10 mm

C : 5 mm

D : 20 mm

Q : 20) Which of the following sentences is correct in the case of Bishop's simplified method of slice?

A : It disregards the effect of the forces acting on the sides of the individual slices.

B : It satisfies only moment force equilibrium

C : It satisfies only vertical force equilibrium

D : It satisfies only horizontal force equilibrium

Q : 21) The actual movement of soil mass is known as :

A : Collapse

B : Slope failure

C : Surface failure

D : Base failure

Q : 22) Select the INCORRECT statement in the case of triaxial test

A : The state of stress within the specimen during any stage of test as well as at failure is completely indeterminate

B : The stress distribution on the failure plane is uniform.

C : All the three drainage conditions can be performed with complete control under the test

D : Precise measurement of pore pressure and volume change during test are possible.

Q : 23) If the angle of internal friction (φ) = 30° for a soil, the angle of failure plane relative to the major principle plane in a triaxial test will be :

A : 60°

B : 30°

C : 45°

D : 67.6°

Q : 24) The unconfined strength of three types of cohesive soil : soil A, soil B and soil C are 35 kN/m², 450 kN/m² and 140 kN/m² respectively. Identify the correct statement based on the consistency behaviour of soils.

A : Soil A is categorized as stiff, soil B is categorized as Hard and soil C is categorized soft

B : Soil A is categorized as soft, soil B is categorized ad hard and soil C is categorized as stiff

C : Soil A is categorized as soft, soil B is categorosied as stiff and soil C is categorised as hard

D : Soil A is categorized as hard, soil B is categorized as stiff and soil C is categorized as soft

Q : 25) The commonly used method for quick determination of water content at field embankments is:

A : Over drying method

B : Sand bath method

C : Alcohol method

D : Calcium carbide method

Q : 26) The toughness index is defined as the ratio of:

A : Plasticity index to consistency index

B : Plasticity index to flow index

C : Liquid index to flow index

D : Consistency index to liquid index

Q : 27) According to Atterberg, the soil is said to be of medium plasticity if the plasticity index (PI) is:

A : 0

B : $7 \leq PI \leq 17$

C : 17

D : $PI \leq 17$

Q : 28) The meniscus and dispersing agent corrections, in the hydrometer analysis, respectively are:

A : Positive and negative

B : Negative and positive

C : Positive and positive

D : Negative and negative

Q : 29) The moisture content of soil below which the soil volume become constant is called the:

A : Liquid limit

B : Plastic limit

C : Shrinkage limit

D : All of these

Q : 30) The ratio of liquid limit to plasticity index for a soil mass is called:

A : Liquidity index

B : Shrinkage ratio

C : Consistency index

D : None of the above



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