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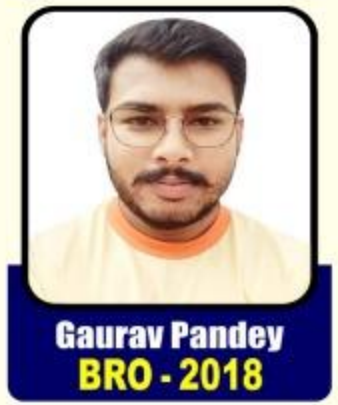

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Q :) Water formed transported soil is:

(a) Loess

(b) Alluvial

(c) Glacier

(d) Marine

Q :) Which one in the following list does not possess plasticity?

(a) Bentonite

(b) Rock flour

(c) Kaolinite

(d) Fat clay

Q :) The soil transported by wind is called

(a) Aeolian soil

(b) Alluvial soil

(c) Marine soil

(d) Lacustrine soil

Q :) The collapsible soil is associated with :

(a) Marine sands

(b) River boulder material

(c) Loess

(d) Black cotton soils

Q :) Flocculent structure is found in

(a) Gravels

(b) Silts

(c) coarse sands

(d) Clays

Q :) For fine grained cohesive soils, method used for drainage is

(a) Ditches and sumps

(b) Shallow well system

(c) Deep well system

(d) Electro osmosis

Q :) A soil composed of loose granular graded material which can be scoured off with the same ease with which it is deposited is known as

(a) Silty loam

(b) Incoherent alluvium

(c) Sandy clay

(d) Regime silt

Q :) Match List-I with List-II and select the correct answer using the codes given below the lists: List -I (Soil Type)

List-I	List-II
A. Oolitic Sand	1. Under-consolidated
B. Biogenetic Sand	2. Rounded
C. Calcareous Clay	3. Cemented
D. Soft Clay	4. Crushing

Codes:

(a) A-2, B-4, C-3, D-1

(b) A-2, B-1, C-3, D-4

(c) A-2, B-1, C-4, D-3

(d) A-2, B-3, C-4, D-1

Q :) The clay mineral primarily governing the swelling behavior of black cotton soil is

(a) halloysite

(b) Kaolinite

(c) Illite

(d) montmorilonite

Q :) The black cotton soils which exhibit high shrinkage and expansive qualities due to the presence of clay minerals of group :

(a) Halloysite

(b) Illite

(c) Montmorillonite

(d) Kaolinite

Q :) Consider the following statement in the context of Aeolian soils :

(i) The soil has low density and low compressibility

(ii) The soil is deposited by wind

(iii) The soil has large permeability

Which of these statement are correct?

(a) (i), (ii) and (iii)

(b) (i) and (iii)

(c) (ii) and (iii)

(d) (i) and (ii)

Q :) The soils most susceptible to liquefaction are

(a) Saturated dense sands

(b) Saturated fine and medium sands of uniform particle size

(c) Saturated clays of uniform size

(d) Saturated gravels and cobbles

Q :) Sedimentary deposits consisting of alternate in layers of silt and clay are called as

(a) Dispersive clays

(b) Calcareous clays

(c) Expansive clays

(d) Varved clays

Q :) Colluvial soils (talus) are transported by:

(a) Water

(b) Wind

(c) Gravity

(d) Ice

Q :) Which soil is classified according to geolog process of formation?

(a) Alluvial soil

(b) Mature Soil

(c) Senile soil

(d) Youthfull Soil

Q :) Inorganic clays have specific gravity usually between following range

(a) 2.70 to 2.80

(b) 2.40 to 2.50

(c) 1.65 to 2.65

(d) 2.90 to 3.00

Q :) An object that has no size but has mass and is assumed to be a single point is space:

(a) Continuum

(b) Rigid body

(c) Point force

(d) Particle

Q :) Drilling mud is usually a mixture of

(a) Bentonite clay and water

(b) China clay and water

(c) Fine silt, fine sand and water

(d) Fine silt and water

Q :) Which of the following is a deposit of glacial origin consisting of un-assorted mixture of boulders and clay particles?

(a) Loess

(b) Till

(c) Talus

(d) Eskers

Q :) Which one or more of the following statements is/are true?

(a) Presence of organic matter in a soil decreases the bearing capacity of the soil

(b) Clays are more porous than sands

(c) Aluminous cement is used for foundations in soils with chemical deposits

(d) All of these statements are true

(e) None of these statements are true

Q :) The behaviour of sand mass to cause liquefaction during an earthquake largely depends on

(a) member of stress cycles

(b) amplitude of earthquake

(c) angle of internal friction of sand

(d) relative density of sand

Q :) Void ratio of soil is the ratio of the :

(a) Volume of voids to volume of soil solids

(b) Volume of voids to volume of water

(c) Volume of soils solids to volume of voids

(d) Volume of voids to total volume

Q :) Which of the following gives the correct decreasing order of the densities of a soil sample?

(a) saturated, submerged, wet, dry

(b) saturated, wet, submerged, dry

(c) saturated, wet, dry, submerged

(d) wet, saturated, submerged, dry

Q :) Relative density of a compacted dense sand is approximately equal to

(a) 0.4

(b) 0.95

(c) 0.6

(d) 1.20

Q :) A soil has a bulk density of 17.6 kN/m³ and water content 10%. if void ratio remains constant then the bulk density for water content of 20% will be

(a) 16.13 kN/m³

(b) 19.36 kN/m³

(c) 19.20 kN/m³

(d) 17.6 kN/m³

Q :) A dry soil has mass specific gravity of 1.35 if the specific gravity of solids is 2.7, then the void ratio will be

(a) 0.5

(b) 1.5

(c) 1.0

(d) 2.0

Q :) An engineer find suitable sand for embankment filling observes that a particular type of 0% What can be conclude from this?

(a) Sand is in its loosest state

(b) Sand is in its densest state

(c) Sand is in intermediate state of compaction

(d) This sand cannot be further compacted

Q :) In soil, the value of which of the following can be more than 100%?

(i) Air Content

(ii) Water Content

(iii) Void Ratio

(iv) Porosity

(a) Only (i)

(b) (i) and (ii)

(c) (ii) and (iii)

(d) (ii), (iii) and (iv)

Q :) As per I.S.S., the specific gravity of soil is determined at

(a) 10°C

(b) 27°C

(c) 17°C

(d) 47°C

Q :) The ratio of volume of water present in a given soil mass to the total volume of its voids is known as

(a) Porosity

(b) Percentage voids

(c) Voids ratio

(d) degree of saturation

Q :) The unconfined compressive strength of a clay in un-disturbed and disturbed state was found to be 180 kN/sqm and 10 kN/sqm respectively. Based on Sensitivity, the soil may be classified as:

(a) In-sensitivity

(b) Sensitivity

(c) Quick Clays

(d) Extra Sensitivity Clays

Q :) For naturally deposited clay, the ratio of unconfined compression strength in undisturbed state to that in remoulded state is called:

(a) Degree of Sensitivity

(b) Degree of saturation

(c) Degree of thixotrophy

(d) Degree of compaction

Q :) A Geotechnical engineer tests a soil and find that its liquidity index is 1.2. Which of the following states is the soil in?

(a) At Liquid limit

(b) At plastic limit

(c) In liquid state

(d) In oven dry state

Q :) The gain in strength of soil with passage of time after it has been remoulded is known as:

(a) Plasticity

(b) Activity

(c) Sensitivity

(d) Thixotropy

Q :) The liquid limit of a soil can be determined in the lab with

(a) Venturimeter

(b) Vane shear apparatus

(c) Proctor's apparatus

(d) Casagrande's apparatus

Q :) An oven dried soil mass of 200 gm is placed in pycnometer and completely filled with water. Combined mass of bottle, soil and water is 1605 gm. Calculate specific gravity of soil if pycnometer with water alone has weight of 1480 gm

(a) 2.63

(b) 2.67

(c) 2.65

(d) 2.69

Q :) As per the simplified version of Stoke's law, the time required to flow for a particle of diameter0.06 mm through a height of 10 cm is :

(a) 31.8 seconds

(b) 30.0 seconds

(c) 30.5 seconds

(d) 28.5 seconds

Q :) If the natural water content of soil mass lies between its liquid limit and plastic limit, the soil mass is said to be in

(a) Liquid state

(b) Plastic state

(c) Semi- solid state

(d) Solid state

Q :) If the sensitivity of a soil is between 4 and 8,then it will be called as:

(a) Insensitive soil

(b) Less sensitive soil

(c) Sensitive soil

(d) Extra sensitive soil

Q :) The property of a soil which allows it to be deformed rapidly, without elastic rebound and without volume changes is called as :

(a) Yielding

(b) Strain hardening

(c) Strain softening

(d) Plasticity

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