

QUIZ NO: 838

TOPIC: GEOTECHNICAL ENGINEERING

DATE: 20/06/2024

1. Which of the following statements is true?

- [A] Void ratio of fine grained soil is greater than that of coarse grained
- [B] Void ratio is always less than 1
- [C] Porosity can have any value greater than 0
- [D] Degree of saturation will be 0 for fully saturated soil

Answer: A

2. If the water content of a fully saturated soil mass is 100% the void ratio of the sample is ...

- [A] less than specific gravity of soil
- [B] equal to specific gravity of soil
- [C] greater than specific gravity of soil
- [D] independent of specific gravity of soil

Answer: B

3. Select the correct statement with regard to determination of water content

- [A] Torsion balance method is useful for soil which quickly re absorb moisture
- [B] Sand bath method can be used for organic and inorganic soils
- [C] Oven drying method is the least accurate
- [D] Pycnometer method can be used even when G is unknown

Answer: A

4. For inorganic soils temperature to be maintained for oven drying method is

- [A] 40°C
- [B] 60°C
- [C] 105°C
- [D] 140°C

Answer: C

5. Unit weight of soil solids is defined as the ratio of

- [A] Weight of wet soil to volume of soil solids
- [B] Weight of soil solids to volume of soil solids
- [C] Weight of soil solids to volume of soil
- [D] Weight of dry soil to volume of soil

Answer: B

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6. Which of the following statements is true?

- [A] Submerged unit weight of soil is equal to the difference in weight of saturated soil and unit weight of water
- [B] Submerged unit weight of soil is greater than saturated unit weight
- [C] Dry unit weight is always greater than saturated unit weight
- [D] Saturated unit weight and submerged unit are the same

Answer: A

7. On remoulding, the strength of undisturbed clay got reduced to 1/10th of its original value. Sensitivity of clay is ____:

- [A] 10
- [B] 5
- [C] 0.5
- [D] 0.1

Answer: A

8. The clay mineral, whose structural units are held together by hydrogen bond is:

- [A] Halloysite
- [B] Illite
- [C] Kaolinite
- [D] Smectite

Answer: C

9. Honey combed structure is seen in

- [A] Clay
- [B] Fine sand and Silt
- [C] Coarse sand
- [D] Gravel

Answer: A

10. For a dense packing of regular spheres at maximum density void ratio

is:

- [A] 0.5
- [B] 1
- [C] 0.91
- [D] 0.35

Answer: D

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