

## QUIZ NO: 707

### TOPIC: GEOTECHNICAL ENGINEERING

**DATE: 28/03/2023**

**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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