

## QUIZ NO: 622

### TOPIC: GEOTECHNICAL ENGINEERING

**DATE: 26/07/2022**

**1. Lowering of groundwater table causes**

- [A] A decrease in effective stress
- [B] An increase in effective stress
- [C] No change in effective stress
- [D] No change in pore water pressure

**Answer: B**

**2. The pore water pressure in the capillary zone is:**

- [A] Zero
- [B] Positive
- [C] Negative
- [D] Very low

**Answer: C**

**3. The relationship between discharge velocity  $V$  and seepage velocity  $V_s$  is**

[A]  $V_s = V/n$

[B]  $V_s = V/e$

[C]  $V_s = Vn$

[D]  $V_s = Ve$

**Answer: A**

**4. Inorganic silt with low plasticity is represented by**

[A] MH

[B] SL

[C] ML

[D] CH

**Answer: C**

**5. Which of the following soil samples will have grains of almost same particle size?**

[A] Well graded

[B] Good graded

[C] Gap graded

[D] Poorly graded

**Answer: D**

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**6. The degree of saturation of a soil at its shrinkage limit is**

- [A] 0%
- [B] 50%
- [C] 75%
- [D] 100%

**Answer: D**

**7. Sheep foot rollers are recommended for compacting:**

- [A] Hard rock
- [B] Granular soil
- [C] Cohesive soil
- [D] Any type of soil

**Answer: C**

**8. Colluvial soils are those which are deposited by**

- [A] Glaciers
- [B] Gravitational force
- [C] Wind
- [D] Sea water

**Answer: B**

9. If the porosity of a soil sample is 40%, its void ratio is:

[A]  $2/3$

[B]  $1/3$

[C]  $1/2$

[D] 1

**Answer: A**

10. The most accurate method of determining the water content in a sample of soil is:

[A] Sand bath method

[B] Calcium carbide method

[C] Oven drying method

[D] Alcohol method

**Answer: C**

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