

QUIZ NO: 378

TOPIC: GEOTECHNICAL ENGG

DATE: 17/12/2020

1. At shrinkage limit, the soil is ?

- [1] Dry
- [2] Partially saturated
- [3] Saturated
- [4] None of above

Answer : C

2. Critical gradient of soil increases with ?

- [1] Decrease in void ratio
- [2] Increase in void ratio
- [3] Decrease in specific gravity
- [4] Both b and c

Answer : A

3. The notation “SC” as per Indian standard Soil Classification System refers to ?

- [1] Clayey silt
- [2] Sandy clay
- [3] Clayey sand
- [4] Silty clay

Answer : C

4. An example of colluvial soil ?.

- [1] Loess
- [2] Talus
- [3] Marl
- [4] Drift

Answer : B

5. Westergaard analysis is used for ?

- [1] homogeneous soils
- [2] cohesive soils
- [3] sandy soils
- [4] stratified soils

Answer : D

6. For proper field control, which of the following methods is best suited for the quick determination of water content of a soil mass ?

- [1] oven dry method
- [2] sand bath method
- [3] pycnometer method
- [4] calcium carbide method

Answer : D

7. Which of the following method is more suitable for the determination of permeability of fine grained soil ?

- [1] Constant head method
- [2] Falling head method
- [3] Pumping in test
- [4] None of the above

Answer : B

8. Type of shear failure in soft clay ?

- [1] General shear failure
- [2] Local shear failure
- [3] Punching shear failure
- [4] None of the above

Answer : C

9. The range of the value of group index of soil ?

[1] $0 \leq GI < 20$

[2] $0 \leq GI \leq 20$

[3] $0 < GI \leq 20$

[4] $0 < GI < 20$

Answer : B

10. By Skempton's method, bearing capacity can be determined for ?

[1] Cohesive soil

[2] Cohesionless soil

[3] Rocks

[4] Minerals

Answer : A

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