

QUIZ NO: 418

TOPIC : GEOTECHNICAL ENGG

DATE: 20/03/2021

1. The clay mineral which behaves high swelling characteristics of black cotton soil ?

- [1] Kaolinite
- [2] Illite
- [3] Montmorillonite
- [4] None of the above

Answer : C

2. At shrinkage limit, the soil is ?

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

Answer : C

3. Bulking of sands is usually ?

- [1] Less than 10 %
- [2] Between 10 % to 20%
- [3] Between 20 % to 30%
- [4] Greater than 30%

Answer : C

4. 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

5. Cohesionless soils are formed due to ?

- [1] Oxidation
- [2] Carbonation
- [3] Hydrolysis
- [4] Abrasion

Answer : D

6. Newmark's influence chart can be used for the determination of vertical stress under ?

- [1] Circular load area only
- [2] Rectangular loaded only
- [3] Any shape of loaded area
- [4] Strip load only

Answer : C

7. 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

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. In rigid footing, clayey soil has contact pressure ____ at edge and ____ at centre.

- [1] max, min
- [2] min, max
- [3] zero, max
- [4] max, zero

Answer : A

10. The property of a soil which passes water through the pore space is termed as ?

- [1] Compressibility
- [2] Permeability
- [3] Sensitivity
- [4] Surface tension

Answer : B

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