

**QUIZ NO: 360**

**TOPIC: GEOTECHNICAL ENGG**

**DATE: 05/11/2020**

1. Soil is said to be low plasticity if the plasticity index is ?

- [1] Less than 7
- [2] Between 7 and 17
- [3] Greater than 17
- [4] Greater than 27

**Answer : A**

2. Footing which covers the entire area beneath a structure and supports the walls and column ?

- [1] Strip footing
- [2] Raft foundation
- [3] Mat foundation
- [4] Both b and c

**Answer : D**

3. Piles which resist horizontal force or inclined force due to berthing of ships ?

- [1] Friction piles
- [2] Compaction piles
- [3] Fender piles
- [4] Batter piles

**Answer : D**

4. 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**

5. The collapsible soil is associated with ?

- [1] Laterite soil
- [2] Loess
- [3] Black cotton soil
- [4] Alluvial soil

**Answer : B**

6. 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**

7. Cohesion less soils are formed due to ?

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

**Answer : D**

8. Dispersing agent correction in hydrometer analysis?

- [1] Zero
- [2] Positive
- [3] Negative
- [4] None of the above

**Answer : C**

9. 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**

10. 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**

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