

**QUIZ NO: 428**

**TOPIC : GEOTECHNICAL ENGG**

**DATE: 13/04/2021**

1. Pile caps are used on a group of piles to ?

- [1] Increases the load bearing capacity of pile
- [2] Protects piles from lateral displacement
- [3] Spread vertical and horizontal load to all piles
- [4] Protect in case of offshore structure

**Answer : C**

2. Method used to determine the horizontal changes in the sub soil ?

- [1] Seismic refraction method
- [2] Resistivity sounding
- [3] Both the above
- [4] Resistivity mapping

**Answer : D**

3. 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**

4. Sensitivity of quick clay ?

- [1] less than one
- [2] Between 2 and 4
- [3] Between 4 and 8
- [4] Greater than 16

**Answer : D**

5. 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**

6. Rankine's theory of earth pressure assumes that the back of the wall is ?

- [1] Plane and smooth
- [2] Plane and rough
- [3] Vertical and smooth
- [4] Vertical and rough

**Answer : C**

7. Which type of shear failure occur on infinite slope ?

- [1] Translational failure
- [2] Rotational failure
- [3] Toe failure
- [4] Face failure

**Answer : A**

8. A clay sample has void ratio of 0.4 in the dry condition. Given specific gravity is 2.65. What is the shrinkage limit of the clay ?

- [1] 15.1%
- [2] 16.1%
- [3] 17.1%
- [4] 18.1%

**Answer : A**

9. Effective stress is the stress ?

- [1] Transmitted by the flowing water
- [2] Can be directly measured
- [3] Transmitted from particle to particle through point of contact
- [4] None of the above

**Answer : C**

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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