

QUIZ NO: 693

TOPIC: GEOTECHNICAL ENGINEERING

DATE: 23/02/2023

1. Which of the following clays behaves like a dense sand?

- [A] Over consolidated clay with a high over consolidation ratio
- [B] Over consolidated clay with a low over consolidation ratio
- [C] Normally consolidated clay
- [D] Under consolidated clay

Answer: A

2. What will be the co-efficient of passive earth pressure, at a depth of 8m in cohesion less soil sand with an angle of internal friction of 30° when the water rises to the ground level?

- [A] 4
- [B] 5
- [C] 3
- [D] 1

Answer: C

3. Which of the following statement is TRUE for the relation between discharge velocity and seepage velocity?

- [A] Seepage velocity is always smaller than discharge velocity
- [B] Seepage velocity can never be smaller than discharge velocity
- [C] Seepage velocity is equal to the discharge velocity
- [D] No relation between seepage velocity and discharge velocity can be established

Answer: B

4. The action of negative skin friction on the pile is to?

- [A] increase the ultimate load on the pile
- [B] reduce the allowable load on the pile
- [C] maintain the working load on the pile
- [D] reduce the settlement of the pile

Answer: B

5. The friction circle may be also referred as _____?

- [A] ϕ -circle
- [B] Plane circle
- [C] Cohesion circle
- [D] All of the mentioned

Answer: A

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6. Which of the following statements is NOT true in the context of capillary pressure in soils?

- [A] Water is under tension in capillary zone
- [B] Pore water pressure is negative in capillary zone
- [C] Effective stress increases due to capillary pressure
- [D] Capillary pressure is more in coarse grained soils

Answer: D

7. Which one of the following statements is NOT correct?

- [A] When the water content of soil lies between its liquid limit and plastic limit, the soil is said to be in plastic state.
- [B] Boussinesq's theory is used for the analysis of stratified soil.
- [C] The inclination of stable slope in cohesive soil can be greater than its angle of internal friction.
- [D] For saturated dense fine sand, after applying overburden correction, if the Standard Penetration Test value exceeds 15, dilatancy correction is to be applied.

Answer: B

8. Permissible settlement is maximum in case of?

- [A] Isolated footing on clay
- [B] Raft foundation on clay
- [C] Raft foundation on sand
- [D] Isolated footing on sand

Answer: B

9. The net safe bearing capacity of a purely cohesive soil?

- [A] Depends upon both the width and depth of the footing
- [B] Depends upon the angle of friction of the soil
- [C] Depends upon the depth of the footing but not the width of the footing
- [D] Independent of both depth and width of the footing

Answer: D

10. Find the settlement of a footing of width 1.2m with the following plate load test result for sandy soil. Settlement of plate is 12mm; width of plate is 400 mm.?

- [A] 495
- [B] 2.5
- [C] 23.5
- [D] None of these

Answer: C

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