

QUIZ NO: 497

TOPIC: GEOTECHNICAL ENGINEERING

DATE: 23/09/2021

1. The value of compression index for a remoulded sample whose liquid limit is 45% is:

- [A] 0.0245
- [B] 0.245
- [C] 0.315
- [D] 0.0315

Answer: B

2. Coefficient of consolidation is used to calculate:

- [A] Time – rate settlement
- [B] Total settlement
- [C] Pre- consolidation pressure
- [D] Stress in the soil

Answer: A

3. Mechanical stabilization of soil is done with help of

- [A] Proper grading and mixing with outside soil
- [B] Cement
- [C] Lime
- [D] Both (a) and (b)

Answer: A

4. For a saturated soil, value of Skempton's parameter B is

- [A] Nearly zero
- [B] Nearly 1.0
- [C] Nearly 0.5
- [D] Very high

Answer: B

5. The volumetric expansion of soil due to shear in a drained shear test is called:

- [A] Thixotropy
- [B] Swelling
- [C] Dilatancy
- [D] Creep

Answer: C

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6. A finite slope of cohesionless soil is safe as long as

- [A] There is no external load
- [B] $\beta > \phi$
- [C] $\beta < \phi$
- [D] The soil is dry

Answer: B

7. For a sand having angle of internal friction 30° the ratio of passive to active earth pressure will be:

- [A] 1
- [B] 3
- [C] 6
- [D] 9

Answer: D

8. A cantilever sheet pile derives its stability from

- [A] Lateral resistance of soil
- [B] Self-weight
- [C] The anchor rod
- [D] Dead load

Answer: A

9. Westergard's analysis for stress distribution beneath loaded area is applicable to:

- [A] Sandy soil
- [B] Clayey soil
- [C] Stratified soil
- [D] Silty soil

Answer: C

10. The maximum permissible settlement for isolated foundation on plastic clay for R.C column is

- [A] 75 mm
- [B] 60 mm
- [C] 40 mm
- [D] 25 mm

Answer: A

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