

QUIZ NO: 661

TOPIC: GEOTECHNICAL ENGINEERING

DATE: 22/11/2022

1. A soil deposit having water content 15 %, specific gravity 2.5 and void ratio 0.5, calculate degree of saturation?

[A] 50%

[B] 70%

[C] 75%

[D] 90%

Answer: C

2. The void ratio at the densest, loosest and the natural states of a sand deposit are 0.2, 0.6 and 0.4 respectively. Relative density for this deposit will be

[A] 90%

[B] 80%

[C] 50%

[D] 25%

Answer: C

3. A soil has liquid limit of 70%, plastic limit 30% and it has a natural moisture content 50%, the liquidity index of a soil is

- [A] 1.5
- [B] 1
- [C] 0.5
- [D] 2

Answer: C

4. The free fall of hammer for compaction of soil in standard proctor test is

- [A] 10.5 cm
- [B] 20.5 cm
- [C] 30.5 cm
- [D] 40.5 cm

Answer: C

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

- [A] Vertical & Smooth
- [B] Inclined & Smooth
- [C] Vertical & Rough
- [D] Inclined & Rough

Answer: A

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6. The most suitable equipment for compacting clayey soils is a:

- [A] Smooth wheeled roller
- [B] Pneumatic tyred rollers
- [C] Sheep foot rollers
- [D] Vibrator

Answer: C

7. Oedometer is used to calculate which of following soil parameter:

- [A] Compressibility
- [B] Permeability
- [C] Specific gravity
- [D] Particle size analysis

Answer: A

8. The ultimate settlement of a soil is directly proportional to

- [A] Depth of the compressible soil strata
- [B] Compressive index
- [C] Void ratio
- [D] Both A & B

Answer: D

9. If D_{60} , D_{30} and D_{10} of sizes of a soil grading are 4 mm, 2 mm and 0.5 mm, what will be the coefficient of uniformity of this soil?

- [A] 0.5
- [B] 1
- [C] 2
- [D] 8

Answer: D

10. A soil has a liquid limit of 40% and Plastic limit of 30%. If its flow index is 20%, the corresponding Toughness index would be

- [A] 0.25
- [B] 0.50
- [C] 0.75
- [D] 1.00

Answer: B

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