

QUIZ NO: 493

TOPIC: GEOTECHNICAL ENGINEERING

DATE: 14/09/2021

1. Talus is the soil transported by

[A] Gravitational force

[B] Water

[C] Glacier

[D] Wind

Answer: A

2. Most fertile soil is:

[A] Alluvium

[B] Black soil

[C] Laterite soil

[D] Red soil

Answer: A

3. The specific gravity of a soil sample is 2.7 & $e=0.945$. If it is fully saturated, what will be the moisture content of the soil:

- [A] 40%
- [B] 35%
- [C] 45%
- [D] 30%

Answer: B

4. A soil has a bulk density of 22 kN/m^3 and $\omega = 10\%$. The dry density of soil is.....

- [A] 18.6 kN/m^3
- [B] 20.0 kN/m^3
- [C] 22.0 kN/m^3
- [D] 23.2 kN/m^3

Answer: B

5. A Pycnometer is used to determine

- [A] Water content & void ratio
- [B] Specific gravity & dry density
- [C] Water content & specific gravity
- [D] Void ratio & dry density

Answer: C

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6. A soil sample has a porosity of 20 percent. Calculate void ratio.

- [A] 0.80
- [B] 1.20
- [C] 0.25
- [D] 0.75

Answer: C

7. Degree of saturation of soil 75%, water content 0.188, specific gravity 2.68, then void ratio is

- [A] 0.33
- [B] 0.67
- [C] 0.50
- [D] 0.57

Answer: B

8. Compaction of soil is measured in terms of:

- [A] Specific gravity
- [B] Voids ratio
- [C] Compressibility
- [D] Dry density

Answer: D

9. Relationship between void ratio 'e' and porosity 'n' of soil is:

[A] $n = (1+e)/e$

[B] $n = e/(1+e)$

[C] $n = 2e/(1+e)$

[D] $n = 3e/(1+3e)$

Answer: B

10. Particles of 0.002 mm size are of

[A] Sand

[B] Gravel

[C] Clay

[D] None of these

Answer: C

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