

QUIZ NO: 400

TOPIC: GEOTECHNICAL ENGINEERING

DATE: 06.02.2021

1. If the porosity of a soil sample is 20 %, the void ratio is

[1] 0.20

[2] 0.80

[3] 1.00

[4] 0.25

Answer: D

2. A certain soil has the following properties: $G_s = 2.71$, $n = 40\%$ and $w = 20\%$. The degree of saturation of the soil (rounded off to the nearest percent) is _____

[1] 0.808

[2] 0.67

[3] 0.45

[4] 0.23

Answer: A

3. If the voids of the soil mass are full of air only, the soil is termed as

- [1] air entrained soil
- [2] partially saturated soil
- [3] dry soil
- [4] dehydrated soil

Answer: C

4. The relation between S_r & a_c is

- [1] $a_c = 1 + S_r$
- [2] $S_r - 1 = a_c$
- [3] $S_r = 1 - a_c$
- [4] $a_c + 1 = S_r$

Answer: C

5. Which of the following type of soil is transported by gravitational forces?

- [1] Loess
- [2] Talus
- [3] Drift
- [4] Dune sand

Answer: B

6. The Bentonite is material obtained due to the weathering of

- [1] lime stone
- [2] quartzite
- [3] volcanic ash
- [4] shales

Answer: C

7. Laterite soils are formed by the process of

- [1] Leaching
- [2] Oxidation
- [3] Hydration
- [4] Hydrolysis

Answer: A

8. Chemical weathering of rocks results in

- [1] Coarse grained and non-cohesive soil
- [2] Fine grained and cohesive soil
- [3] Coarse grained and cohesive soil
- [4] Fine grained and non-cohesive soil

Answer: B

9. Triaxial compression test is used to find _____ of soil.

[1] Compressive strength

[2] Permeability

[3] Specific gravity

[4] Shear strength

Answer: D

10. Fine particles are those particles with size less than _____ mm diameter.

[1] 0.023

[2] 0.090

[3] 0.075

[4] 4.75

Answer: C

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