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1. Residual soils are formed by

- a) glaciers
- b) wind
- c) water
- d) none of the above

Ans:d

2. Water content of soil can

- a) never be greater than 100 %
- b) take values only from 0 % to 100 %
- c) be less than 0 %
- d) be greater than 100 %

Ans:d

3. Which of the following types of soil is transported by gravitational forces ?

- a) loess
- b) talus
- c) drift
- d) dune sand

Ans:b

4. A fully saturated soil is said to be

- a) one phase system
- b) two phase system with soil and air
- c) two phase system with soil and water
- d) three phase system

Ans:c

5. Valid range for S, the degree of saturation of soil in percentage is

- a) $S > 0$
- b) $S < 0$
- c) $0 < S < 100$
- d) $0 < S < 100$

Ans:d

6. Constant head permeameter is used to test permeability of

- a) silt
- b) clay
- c) coarse sand
- d) fine sand

Ans:c

7. A soil has a bulk density of 22 kN/m³ and water content 10 %. The dry density of soil is

- a) 18.6 kN/m³
- b) 20.0 kN/m³
- c) 22.0 kN/m³
- d) 23.2 kN/m³

Ans:b

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

- a) air entrained soil
- b) partially saturated soil
- c) dry soil
- d) dehydrated soil

Ans:c

9. Valid range for n, the percentage voids, is

- a) $0 < n < 100$
- b) $0 < n < 100$
- c) $n > 0$
- d) $n < 0$

Ans:a

10. Select the correct statement.

- a) Unit weight of dry soil is greater than unit weight of wet soil.
- b) For dry soils, dry unit weight is less than total unit weight.
- c) Unit weight of soil increases due to submergence in water.
- d) Unit weight of soil decreases due to submergence in water.

Ans:d