

## Soil Mechanics & Foundation Engineering Quiz Questions & Answers Pdf

1. In the densest state void ratio of soil can be low as

- a. 0.3
- b. 0.25
- c. 0.2
- d. 0.15

Ans: B

2. Plastic limit of a soil is defined as

- a. The limit of water content that represents the boundary between plastic and semi-solid state.
- b. The lowest water content at which soil can still be completely saturated.
- c. The water content at which the soil shows shearing resistance as the water content is reduced.
- d. None of the above

Ans: C

3. Plastic limit is defined as

- a. The limit of water content that represents the boundary between plastic and semi-solid state.
- b. The lowest water content at which soil can still be completely saturated.
- c. The water content at which the soil shows shearing resistance as the water content is reduced.
- d. None of the above

Ans: C

4. Shrinkage limit is defined as

- a. The limit of water content that represents the boundary between plastic and semi-solid state.
- b. The lowest water content at which soil can still be completely saturated.
- c. The water content at which the soil shows shearing resistance as the water content is reduced.
- d. None of the above

Ans: A

5. Difference between liquid limit and plastic limit is known as

- a. Plasticity index
- b. Consistency index
- c. Liquidity index
- d. None of the above

Ans: B

6. If consistency index is zero, it means that the soil

- a. Is at plastic limit
- b. Is at liquid limit
- c. Behaves like liquid
- d. Is stiff

Ans: C

7. The moisture content of a clayey soil is gradually reduced from a large value. The correct sequence of the occurrence of the limit are

- a. Plastic limit, liquid limit and shrinkage limit
- b. Shrinkage limit, plastic limit and liquid limit
- c. Liquid limit, plastic limit and shrinkage limit
- d. Plastic limit, shrinkage limit and liquid limit

Ans: B

8. Which of the following is highly permeable?

- a. Clay
- b. Fine sand
- c. Coarse sand
- d. Gravel

Ans: C

9. Least permeable soil is

- a. Clay
- b. Fine sand
- c. Coarse sand
- d. Gravel

Ans: D

10. The property of soil which permits the seepage of water is known as

- a. Porosity
- b. Capillarity
- c. Permeability
- d. Viscosity

Ans: A

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