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## Soil Mechanics and Foundation MCQ Test

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Below are the **Soil Mechanics and Foundation MCQ** test that checks your basic knowledge of Soil Mechanics and Foundation. This **Soil Mechanics and Foundation MCQ Test** contains 20 Multiple Choice Questions. You have to select the right answer to the question. apart from this, you can also download here the **Soil Mechanics and Foundation MCQ PDF**, completely free.

**Q1. The lateral earth pressure on a retaining wall is proportional to**

- A. The depth of the soil
- B. The soil retained
- **C. The internal friction of the soil**
- D. The square of the depth of the soil

**Q2. The quantity of seepage of water through soils is proportional to**

- A. Total head loss through the soil
- B. Coefficient of permeability of soil
- **C. Both A & B**
- D. None of the above

**Q3. Which of the following soil has the finest grains?**

- A. Silt
- **B. Clay**
- C. Fine sand
- D. Coarse sand

**Q4. Minimum size of the particles of silt soil, is**

- A. 1 mm

- B. 0.08 mm
- C. 0.06 mm
- **D. 0.002 mm**

**Q5. The water content of soil is defined as the ratio of**

- A. Volume of water to volume of given soil
- B. Volume of water to volume of given soil
- **C. Weight of water to weight of solids of given mass of soil**
- D. None of the above

**Q6. Accurate determination of water content, is made by**

- A. Alcohol method
- B. Sand bath method
- **C. Oven-drying method**
- D. Calcium carbide method

**Q7. Water formed transported soil is**

- A. Loess
- B. Marine
- **C. Alluvial**
- D. Lacustrine

**Q8. Talus soil is transported by .....**

- A. Wind
- B. Water
- C. Glacier
- **D. Gravitational force**

**Q9. Chemical weathering of soil is caused due to .....**

- A. Leaching
- B. Hydration
- C. Oxidation
- **D. All of the above**

**Q10. Hydrometer readings are corrected for:**

- A. Meniscus correction
- B. Dispersing agent correction
- C. Meniscus and dispersing agent corrections
- **D. Temperature, meniscus and dispersing agent corrections**

**Q11. Under reamed piles are generally used for .....**

- **A. Bored piles**
- B. Driven piles
- C. Precast piles
- D. None of the above

**Q12. Factor of safety against sliding of a slope is the ratio of .....**

- A. Shear strength to shear stress along the surface
- B. Actual cohesion to that required to maintain stability of slope
- **C. Both A & B**
- D. None of the above

**Q13. The method of the slices is applicable to**

- A. Saturated soils
- B. stratified soils
- **C. Homogenous soils**
- D. None of the above

**Q14. Pile foundations are generally preferred to for .....**

- A. Runways
- B. Bridge foundations
- C. Residential buildings
- **D. Sky scrapper buildings**

**Q15. The liquid limit and plastic limit exist in**

- A. Silty soils
- **B. Clay soils**
- C. Sandy soils
- D. Gravel soils

**Q16. The clay soil mainly consists of .....**

- A. Illites
- B. Kaolinites
- C. Vermiculite
- **D. All the above.**

**Q17. The specific gravity of sand is approximately .....**

- A. 2.0
- **B. 2.6**
- C. 2.4
- D. None of the above

**Q18. A decrease in water content results in a reduction of the volume of a soil in**

- A. Liquid state
- B. Semi solid state
- C. Plastic state
- **D. All of these**

**Q19. Soils containing organic matters are of spongy nature.**

- **A. True**
- B. False

**Q20. The angle of internal friction is maximum for**

- A. Round-grained dense sand
- B. Round-grained loose sand
- **C. Angular-grained dense sand**
- D. None of the above

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