

## QUIZ NO: 760

### TOPIC: GEOTECHNICAL ENGINEERING

**DATE: 21/09/2023**

1. The position of the backfill lying above the horizontal plane at the top of wall is called \_\_\_\_\_

- [A] Active state
- [B] Plasticity
- [C] Surcharge
- [D] Slip lines

**Answer: C**

2. The wedge-shaped portion of the backfill tending to move with the wall is called \_\_\_\_\_?

- [A] Wedge fall
- [B] Active fall
- [C] Failure wedge
- [D] None of the mentioned

**Answer: C**

**3. The theory of plasticity pertaining to soils is based on \_\_\_\_\_?**

- [A] Mohr's theory
- [B] Rankine's method
- [C] Mohr-coulomb theory
- [D] None of the mentioned

**Answer: A**

**4. Rankine's theory of earth pressure assumes that the back of the wall is?**

- [A] Plane and smooth
- [B] Plane and rough
- [C] Vertical and smooth
- [D] Vertical and rough

**Answer: C**

**5. Most suitable method for drainage of fine-grained cohesive soils is?**

- [A] Vacuum method
- [B] Deep well method
- [C] Electro osmosis method
- [D] None of the above

**Answer: C**

**6. Which of the following clays behaves like a dense sand?**

- [A] Over consolidated clay with a high over consolidation ratio
- [B] Over consolidated clay with a low over consolidation ratio
- [C] Normally consolidated clay
- [D] Under consolidated clay

**Answer: A**

**7. The action of negative skin friction on the pile is to?**

- [A] Increase the ultimate load on the pile
- [B] Reduce the allowable load on the pile
- [C] Maintain the working load on the pile
- [D] Reduce the settlement of the pile

**Answer: B**

**8. For proper field control, which of the following methods is best suited for the quick determination of water content of a soil mass?**

- [A] Oven dry method
- [B] Sand bath method
- [C] Pycnometer method
- [D] Calcium carbide method

**Answer: D**

**9. Which of the following method is more suitable for the determination of permeability of fine-grained soil?**

- [A] Constant head method
- [B] Falling head method
- [C] Pumping in test
- [D] None of the above

**Answer: B**

**10. Permissible settlement is maximum in case of?**

- [A] Isolated footing on clay
- [B] Raft foundation on clay
- [C] Raft foundation on sand
- [D] Isolated footing on sand

**Answer: B**

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