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ANSWER KEY

QUIZ NO: 845

TOPIC: GEOTECHNICAL ENGINEERING

DATE: 20/07/2024

1. The coefficient of passive earth pressure for cohesion less granular soil is represented by:

[A]
$$(1 + \sin \theta)/(1 - \sin \theta)$$

[B]
$$(1 + \cos \theta)/(1 - \cos \theta)$$

[C]
$$(1 - \sin \theta)/(1 + \sin \theta)$$

[D] None of these

Answer: A

2. During seepage through an earth mass, the direction of seepage is

- [A] Parallel to the equipotential lines
- [B] Perpendicular to the streamlines
- [C] Perpendicular to the equipotential lines
- [D] Along the direction of gravity

Answer: C





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3.	The suitable method for determining stress distribution beneath loaded area
	in stratified soil

- [A] Westergaard's method
- [B] Boussinesq's method
- [C] Newmarks method
- [D] 2:1 distribution method

Answer: A

- 4. Coefficient of permeability is directly proportional to the square of:
 - [A] Unit weight of water
 - [B] Viscosity
 - [C] Average grain size
 - [D] None of these

Answer: C

- 5. For better strength and stability, the fine-grained soils and coarse-grained soils are compacted respectively as
 - [A] Dry of OMC and wet of OMC
 - [B] Dry of OMC and dry of OMC
 - [C] Wet of OMC and dry of OMC
 - [D] Wet of OMC and wet of OMC

Answer: C





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- 6. The major drawback of direct shear test is
 - [A] Major principal plane is horizontal
 - [B] Minor principal plane is horizontal
 - [C] Failure plane always kept horizontal
 - [D] None of the above

Answer: C

- 7. Which of the following piles is used to compact loose granular soil?
 - [A] Friction piles
 - [B] End bearing piles
 - [C] Compaction piles
 - [D] Tension piles

Answer: C

- 8. In which one of the following zones is a logarithmic spiral shape of failure surface assumed in the case of bearing capacity analysis of soils?
 - [A] Active zone
 - [B] Radial shear zone
 - [C] Passive zone
 - [D] Surcharge zone

Answer: B





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9. In consolidation testing, curve fitting method is used to determine

- [A] Compression index
- [B] Swelling index
- [C] Coefficient of consolidation
- [D] Time factor

Answer: C

10. Temperature correction in hydrometer analysis is

- [A] Negative when temperature < 27°C and positive when temperature > 27° C
- [B] Positive when temperature < 27°C and negative when temperature > 27° C
- [C] Always negative
- [D] Always positive

Answer: A

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