

Name: _____ Hall Ticket No.

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Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.**I Choose the correct alternative:**

1. A typical laboratory vane height is about []
a) 20 mm b) 30 mm c) 10 mm d) 15 mm
2. Standard proctor test equipment of cylindrical metal mould having an internal diameter of []
a) 2 inches b) 4 inches c) 3 inches d) 5 inches
3. Rapid determination of water content can be done by []
a) Calcium carbide method b) Proctor needle method
c) Modified proctor method d) a & b
4. Sloping surface behind the wall be inclined at an angle with the horizontal is called []
a) Horizontal angle b) vertical angle c) surcharge angle d) slope
5. Failure of a mass of soil located beneath a slope is called []
a) Slide b) downward moment c) outward moment d) colossal
6. If the failure occurs along a surface of sliding that intersects the slope at or above its toe, the slide is known as []
a) Slope failure b) base failure c) arc failure d) finite failure
7. Standard proctor test was developed in []
a) 1930 b) 1933 c) 1940 d) 1943
8. Initial water content added to the coarse grained soil in standard proctor test is about []
a) 2% b) 3% c) 5% d) 4%
9. Classes of soil deposits as regards to the consolidation history are []
a) Pre-consolidated b) normally consolidated c) under consolidated d) all are correct
10. Compactive energy given to the soil in modified proctor test is about []
a) 2674 kJ/m³ b) 2647 kJ/m³ c) 2874 kJ/m³ d) 2764 kJ/m³

II Fill in the blanks:

11. In vane shear test, torque rotates at a uniform speed of _____
12. Weight of hammer has been used in standard proctor test is about _____
13. In Abbot compaction test, upper portion of the stem of the hammer is graduated in _____
14. Capacity of jodhpur mini compactor test is about _____
15. Delay caused in consolidation by the slow drainage of water out of a saturated soil mass is called _____
16. A soil which is not fully consolidated under existing overburden pressure is called _____
17. Direct measurement of permeability of the specimen at any stage of loading can be made only in _____
18. Failure of slopes takes place mainly due to action of gravitational forces and _____ within the walls
19. Circular rupture surface was first proposed by _____
20. If the failure occurs in finite slopes along a surface of sliding that intersects the slope at or above its toe, the slide is known as _____

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