

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. The principle type of vibratory compacters available for ground improvement are []
A) Vibrating plates B) Vibratory rollers C) A& B both D) none
2. Sheep foot rollers are especially useful for soils like []
A) Clay B) Sand C) Gravel D) none
3. Very thick soil layers can be easily compacted by using []
A) Oscillating vibrator B) Rotary additional vibrator C) Rotary vibrator D) All the above
4. A technique to prevent boiling, softening or heave in excavation bottom []
A) Vibration B) compaction C) lime column D) Dewatering
5. The soft ground improvement technique is []
A) Sand compaction pile method B) vibration C) Stabilization D) none
6. The stability which describes number, length and strength of reinforced soil structure is []
A) Internal stability B) External stability C) A & B both D) None
7. Permeable textiles used with soil or rock as an integral part of man-made product or structure are called []
A) Geo composites B) Geotextiles C) Geo grids D) none
8. Marine or brackish water clay composed of glacier rock flour that is above elevated sea level is called []
A) Red clay B) marine clay C) Quick clay D) All the above
9. Factors effecting face stability of a tunnel []
A) Overburden pressure B) Ground water regime
C) suitable site for spillway D) A & B above
10. A continuous concrete wall built below ground using a fluid filled trench is []
A) Gravity dam B) Spillway C) Diaphragm wall D) None

Cont.....2

II Fill in the Blanks:

11. _____ are made by mixing lime with soil and compacted in the bore holes at a fixed density.
12. _____ vibrating equipment is mostly used for compaction of large fills.
13. To improve the stability and facilitate the use of cohesive soils compacted at moisture content greater than optimum, Geo grids can be placed _____ in the fill.
14. _____ is a synthetic planar structure formed by a regular network of tensile elements of sufficient size.
15. The stability which describes sliding, overturning and tilting failure of reinforced soil structure is _____.
16. Granular material compacted insitu in long cylindrical bore holes is called _____.
17. The skirted granular pile foundation consists of a cast insitu _____ placed on a soil plug.
18. Sodium bentonite liner is added to soil to decrease its _____ to a level at which an effective hydraulic barrier can be constructed.
19. Soils undergo surface and sub surface erosion initiated by dispersion of clay particles are called _____.
20. In the stabilization of steep slopes, _____ are placed in horizontal layers with in the slope where the fabric functions as reinforcement.

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