

Code No: 55004

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year I Semester Examinations, September - 2021

GEOTECHNICAL ENGINEERING - I

(Civil Engineering)

Time: 3 hours

Max. Marks: 75

Answer any five questions  
All questions carry equal marks

- 1.a) Explain various types of soil structures with the help of a neat sketch.  
b) Explain about two-phase system and three-phase system and their importance in mass-volume relationship. [7+8]
- 2.a) Explain the relation between toughness index, plasticity index and flow index.  
b) Calculate specific gravity of solids if mass specific gravity of saturated clay is 1.8 with the water content of 35%. On oven drying, the mass specific gravity is 1.7. Also estimate shrinkage limit of the soil. [7+8]
- 3.a) Explain about permeability of layered soils.  
b) A laboratory test for a soil sample was conducted for which coefficient of permeability obtained was  $3.4 \times 10^{-8}$  cm/sec. The diameter of the variable head permeameter is 10cm and its length is 12cm. The time taken for the fall in the stand pipe from 90cm to 60cm is 5min. Determine the diameter of the standpipe. [7+8]
- 4.a) Explain the characteristics and uses of flownets.  
b) A clay layer is at a depth of 6m from the ground under a saturated sand layer. The water table is 2.5m below the ground level. If the density of saturated sand is  $18.5 \text{ kN/m}^3$ , determine the effective stress on the top of the clay layer. Assume capillary fringe up to 1.5m above the water table. [7+8]
- 5.a) Explain about Newmark's influence chart for irregular areas with the help of neat sketch.  
b) A concentrated load of 200kN acts on the surface. Determine the vertical stress at a depth of 8m beneath the load and at a radial distance of 6m using Boussinesq's and Westergaard's theory. [7+8]
- 6.a) Explain factors affecting compaction.  
b) Explain about compaction control and its measures. [7+8]
- 7.a) Explain about logarithm of time fitting method for calculating coefficient of consolidation.  
b) A clay soil sample was tested in the laboratory and it shows a decrease in void ratio from 1.15 to 1.05 when the pressure was increased from  $0.10 \text{ kg/cm}^2$  to  $0.20 \text{ kg/cm}^2$ . Determine coefficient of compressibility and coefficient of volume compressibility. [7+8]
- 8.a) Explain tri-axial test for any two drainage condition.  
b) Explain about shear strength of sands. [7+8]

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