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## Fifth Semester B.E. Degree Examination, Dec.2023/Jan.2024 Geotechnical Engineering

Time: 3 hrs.

Max. Marks: 100

*Note: Answer any FIVE full questions, choosing ONE full question from each module.*

### Module-1

1. a. With the help of 3-phase diagram, explain:  
 (i) Void ratio      (ii) Porosity      (iii) Air content      (iv) Degree of saturation      (10 Marks)
- b. With usual notations, derive the relation  $\gamma_d = \frac{(1 - n_a) G \gamma_w}{W G + 1}$ .      (10 Marks)

OR

2. a. Explain the following:  
 (i) Liquid limit      (ii) Shrinkage limit      (iii) Plastic limit  
 (iv) Activity of clay      (v) Relative density      (10 Marks)
- b. Classify following soils as per IS classification:

Soil	% passing 4.75 mm	% passing 75 micron	$C_u$	$C_c$	W
A	98	02	6.7	1.2	$I_p = 2.2$
B	100	100	-	-	$W_L = 400$ $W_p = 50$

(10 Marks)

### Module-2

3. a. Define permeability and explain factors affecting permeability.      (10 Marks)
- b. The discharge of water collected from a constant head permeameter in a period of 15 minutes is 400 ml. The internal diameter of permeameter is 6cm and measured difference in heads between the two gauging points 15 cm apart is 40. Calculate the coefficient of permeability. If the dry weight of 15 cm long sample is 7N and specific gravity of the solids is 2.65. Calculate seepage velocity.      (10 Marks)

OR

4. a. Explain effective stress and total stress concept.      (08 Marks)
- b. Write a note on quick sand phenomena.      (06 Marks)
- c. Explain impact of effective stress in construction of structures.      (06 Marks)

### Module-3

5. a. Discuss the factors affecting compaction of soils.      (05 Marks)
- b. Write difference between standard and modified proctor's compaction.      (03 Marks)
- c. The following are the results of compaction test:

Water content (%)	8	11.5	14.5	17.5	19.5	21.5
Mass of wet soil (gm)	1700	1900	2000	1980	1950	1920

If volume of mould used was 950 cc and specific gravity was 2.65:

- (i) Draw dry density versus water content curve, find OMC and MDD.      (12 Marks)
- (ii) Plot 100% saturation line

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