4TH SEMESTER

GEOTECHNICAL ENGINEERING [CET-402]

2 MARKS QUESTIONS.

1. Explain three phase system of soil with conceptual diagram?
2. What do you mean by water content?
3. Define specific gravity of soil solid?
4. Explain void ratio and porosity . Write the relationship between them?
5. What do you mean by degree of saturation?
6. State the difference between percentage air void and air content?
7. Define density index?
8. State the relationship between e, w , G and Sr?
9. State the relationship between γd, γ and w?
10. What is the difference between saturated density and submerged density?

5 MARKS QUESTIONS.

1. Derive the relationship between γd, G, γw and e?
2. A soil sample has a porosity of 40%. The specific gravity of solids is 2.