

## CE8491 SOIL MECHANICS

### Important 2 Mark Questions

#### Part-A

1. What are the Atterberg's limits? List its types.
2. Define plasticity index and flow index.
3. Distinguish between porosity and void ratio.
4. Show a relation for  $\gamma_{\text{sat}}$  with  $G$ ,  $\gamma_w$  and  $e$ .
5. Define hydraulic gradient.
6. Write the principle behind Newmark's influence chart?
7. Solve the compression index of remolded soil sample with liquid limit of 40%.
8. Define primary and secondary consolidation.
9. Explain the term stress isobar or pressure bulb.
10. Show the coulomb's expression for shear strength.
11. Define finite slope.
12. Why circular failure surface is mobilized?
13. Write the expression for FOS for friction.
14. Show the expression for stability number.
15. When will you adopt friction circle method?