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M.Tech.(Geo Technical Engineering / Soil Mechanics & foundation Engineering) (2013 & Onwards) (Sem.-1)

ADVANCE SOIL MECHANICS

Subject Code : CESE-1 Paper ID : [E1001]

Time: 3 Hrs. Max. Marks: 100

INSTRUCTION TO CANDIDATES:

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWENTY marks.
- 3. Assume any other data suitably if not given.
- Q1. What are various agents responsible for formation of soils? Discuss in detail.
- Q2. How the clay structural measurements are done in lab as well as in field? Is there any specific instrumentation involved in it? If yes then explain with the neat sketches.
- Q3. Discuss in detail permeability compression of dry of Optimum moisture content and wet of Optimum moisture content.
- Q4. What are various elastic theories of stress distribution in soils? Discuss in detail.
- Q5. How does over consolidation affect shear strength of soil? Explain.
- Q6. What are various factors affecting secondary consolidation of soil? Explain.
- Q7. What do you mean by the total stress analysis method of dealing with stress analysis? Explain its role in soil mechanics.
- Q8. Discuss how does Hyorslev's true shear parameters affect shear strength?

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