

GEOTECHNICAL ENGINEERING

Assignment No: 2

- **1.** What do you mean by Permeability?
- 2. Explain with neat sketches: 1. Total head, 2. Hydraulic head, 3. Hydraulic Gradient,
 - 4. Seepage, 5. Seepage Velocity.
- **3.** Explain in detail: Piping
- 4. What do you mean by Quick sand condition?
- 5. Derive: $i_c = \frac{G-1}{1+e}$
- 6. Explain In detail: Darcy's Law.
- 7. Describe in detail: Factors affecting permeability of Soil.
- 8. Derive an equation of Average permeability parallel to the bedding plane.
- **9.** What is Flow net? Explain in detail with neat sketches.

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DEPARTMENT : CIVIL SEMESTER : 3RD SUBJECT NAME: GEOTECNICAL ENGINEERING SUBJECT CODE : 3130606 FACULTY NAME : PROF. MAYUR M HIRANI

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