

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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