

FD 3rd
Civil ~~Final~~ year · (B.Tech)

(Assignment)

- ① Explain the method of Boring & Drilling.
- ② What do you understand by soil exploration?
- ③ Explain geophysical Methods.
- ④ What are differences b/w shallow and deep Foundation.
- ⑤ Write down the factors that affects Bearing Capacity.
- ⑥ Explain Terzaghi's Theory and Meyerhoff, Hansen's bearing Capacity theories.
- ⑦ Differentiate immediate & differential settlement.
- ⑧ What is negative skin friction?
- ⑨ A continuous foundation of 1 m wide and 1.8 m depth from ground surface. soil having $\gamma = 20 \text{ kN/m}^3$, $C = 20 \text{ kN/m}^2$, $\phi_1 = 20^\circ$, $F = 3$. calculate safe bearing capacity of soil.
- ⑩ Design a foundation of column for 300 kN load in dense sand; internal angle $\phi = 37^\circ$, $\gamma = 19 \text{ kN/m}^3$, Allowable Pressure = 500 kN/m², $F \geq 3$.