

School of University Polytechnic

**Diploma in Civil Engineering
Semester End Examination - Jun 2024**

**Duration : 180 Minutes
Max Marks : 100**

Sem IV - N1DB404B - N1DB401B - Soil Mechanics and Foundation Engineering*General Instructions**Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- | | | |
|-----|---|--------|
| 1) | Define phase diagram of soil. | K1(2) |
| 2) | explain retaining wall. | K2(4) |
| 3) | Explain permeability and the affect of void ratio on the soil's permeability. | K2(6) |
| 4) | Illustrate the plastic limit and discuss the method to determine it. | K3(9) |
| 5) | Illustrate the significance of soil investigation | K3(9) |
| 6) | Compare different types of earth pressures. | K5(10) |
| 7) | Point out the term: Shear strength of soil | K4(12) |
| 8) | Examine how physical weathering affect the formation of soil. Give example of different soil formed by physical weathering. | K5(15) |
| 9) | Examine the name of compacting equipments. | K5(15) |
| 10) | Explore compaction of soil with the help of phase diagram of soil. | K6(18) |