

SEMESTER-III (Pool-B)

COURSE NAME : Soil Analysis

(CHOI-B15)

Number of Credit: - 02

Maximum marks: 50

Paper... : CHOI-B... : Soil Analysis

Contact Hours/Week : 04 Hours/Week **Maximum Marks** : 50 Marks
Total Hours/Semester : 60 Hours/Semester **Minimum Pass Marks** : 20 Marks
Duration of Examination : 04 Hours/Paper **Nature of Examination** : Practical

Conduction of Examination: End semester examination will not be conducted at university level. It will be conducted internally at the department/college level after completion of the semester. Marks/grades will be filled by the concern department/college and hard copy of the same will be sent to the University for declaration of result.

Distribution of Marks:

S. No.	Name of Exercise	Marks
1.	Exercise No. 1	15
2.	Exercise No. 2	15
3.	Practical Record	05
4.	Good Laboratory Skills and Regularity in Practicals	05
5.	Comprehensive Viva-voce	10
Total Marks		50

Practical:

1. To determine the moisture content in a given sample of soil.
2. To determine the exchangeable acidity in a given sample of soil.
3. To determine the lime requirement in a given sample of soil.
4. To determine the electrical conductivity in a given sample of soil.
5. To determine the pH in a given sample of soil.
6. To determine the calcium carbonate in a given sample of soil.
7. To determine the cation exchange capacity in a given sample of soil.
8. To determine the available phosphate in a given sample of soil.
9. To determine the total nitrogen in a given sample of soil.
10. To determine the organic carbon in a given sample of soil.
11. To determine the particle size distribution in a given sample of soil.
12. To determine the field capacity of a given sample of soil.
13. To determine the moisture and permanent wilting point in a given sample of soil

14. To determine the soil organic matter in a given sample of soil.
15. To determine the potassium and sodium in a given sample of soil.
16. To determine the available soil micronutrients in a given sample of soil.
17. To determine the gypsum in a given sample of soil.
18. To determine the soluble calcium and magnesium in a given sample of soil.
19. To determine the carbonate and bicarbonate in a given sample of soil.
20. To determine the chloride in a given sample of soil.