

PAPER – III PRACTICALS

Max. Marks -80+20*
Time- 6 Hrs. (2 Sessions)

1. Identify, classify and write short morphological notes giving well labelled relevant diagrams on the given specimens **A, B, C** and **D** (one each from Algae, Fungi, Bryophytes and Pteridophytes).
26
2. Prepare the root smear and find out two different stages of Mitosis. Identify and show it to the examiners. Also give characters of identification.
10
3. Numerical regarding Genetics (Mendelian Inheritance or Gene Interaction) as per syllabus.
10
4. Identify giving two important characters of identification on spots **1, 2, 3** and **4** (one slide or material each from Algae, Fungi, Bryophytes and Pteridophytes).
20
6. Note-book, collection and collection report.
12
7. Viva-voce.
12

LIST OF PRACTICALS (Semester I & II)

1. Stages of Mitosis from Material (Onion-root tips).
2. Experiments on Monohybrid and Dihybrid ratios.
3. Gene Interactions and modified Dihybrid ratios.
4. Chi-square analysis.
5. Type study- Specimens from Algae, Fungi, Bryophytes and Pteridophytes as per theory syllabus.
6. Field tour of an area rich in diversity of Archegoniates for collection of plants, plant diseases and preparation of Herbarium.
7. Preparation of Survey/Collection Report.