

**BACHELOR OF SCIENCE in BOTANY (HONS)
SEMESTER – III**

Paper Code: BOT-303(P)

BOT-303(P) BOTANY PRACTICAL-III

25 MARKS

PRACTICAL LABORATORY

1. Preparation of map of phytogeographical regions of India.
2. Determination of the minimum size of the quadrat by species area curve method.
3. Determination of frequency of vegetation in a community by quadrat method.
4. Determination of osmotic potential of vacuolar sap by plasmolysis method using Rheo/Tradescantia leaf and onion peel.
5. Determination of rate of transpiration by Ganong's photometer.
6. Extraction of chlorophyll pigments from leafy plants by paper chromatographic Technique.
7. Study of rate of photosynthesis under different light intensities.
8. Determination of RQ of plant materials having fats, protein.
9. Simple tests for carbohydrate, protein, fats and nucleic acids.
10. Preparation of buffer-Phosphate and Tris acetate buffer.
11. Isolation of DNA from plant seedlings.
12. Field observation of local vegetation and submission of report is compulsory.
