

BACHELOR OF SCIENCE in BOTANY (HONS)
SEMESTER – IV

Paper Code: BOT-404(P)

BOT-404(P) BOTANY PRACTICAL-IV

25 MARKS

PRACTICAL LABORATORY

1. To study cell structure from leaf peel, demonstration of staining and mounting methods.
2. Comparative study of cell structures in Onion cells, Spirogyra: Study of Cyclosis in Tradescantia staminal cells.
3. Study of plastids to examine pigment distribution in plants (e.g. Cassia and capsicum).
4. Examination of electron micrographs of eukaryotic cells with special reference to organelle.
5. Examination of various stages of mitosis and meiosis using appropriate land materials (e.g. Onion root tips, Onion flower buds, Rheoe, Tradescantia).
6. Working out the law of inheritance using seed mixtures.
7. Callus induction, organogenesis and plant regeneration (rice mature embryo).
8. Protoplast isolation e.g. tobacco, proteins.
9. Preparation of tissue culture media, sterilization and inoculation of plan material.
10. Analysis of data for mean, mode, median and standard deviation.
