

PBO-403

PRACTICAL BASED ON TOPICS COVERED IN CBO-403

Cell Biology

Study of various cell organelles through permanent Slides/Charts/Models/
Photographs/Microphotographs Plastids, Mitochondria, Cell wall, Golgibodies,
Lysosomes, Peroxisomes
Temporary stained preparation of Mitosis / Meiosis Onion tip, Ipomoea bud,
Tradescantia bud and Aloe bud
Study of Giant chromosomes from Salivary glands of *Drosophila* (Polytene),
Chironomous larva (Lamp brush)
Methods of induction of Polyploidy in onion root tip
Exercise may be given according to the syllabus.

Genetics

Study of permanent Slides/Charts/Models/Photographs Male sterility, Circular
genetic map of chloroplast genome in *Chlamydomonas*, Chromosomal mapping, Cell
cycle and cancerous cell
Insertion sequence, Transposable elements and AC-DS system
Hardy Weinberg genetic equilibrium
Problems on quantitative genetics-metrics characters (Multifactor-Polygenic inherita
Kernel colour in Wheat, Skin colour in Man
Solve the Genetical problems on topics included in the theory syllabus.
Exercise may be given according to the syllabus.