

PRACTICAL-II : CELL BIOLOGY AND GENETICS

Semester	Subject Code	Category	Practical		Theory		Practical	Credits
			Hrs/ week	Total Hours/ Semester	Hrs/ week	Total Hours/ Semester		
IV	21CZO41	Practical-II	3	45	-	-	45	3

A) CELL BIOLOGY

1. Use of Microscope,
2. Camera Lucida,
3. Stage and Ocular Micrometers
4. Blood Smear Preparation-
5. Differential count of W.B.C
6. Total Count of RBC using Haemo cytometer
7. Total Count of WBC using Haemo cytometer.
8. Mounting of Buccal Epithelium.
9. Mitosis in Onion Root Tip-Squash Preparation
10. Study of Prepared Slides:

a) Columnar Epithelium	b) Ciliated Epithelium	e) Bone T.S
c) Glandular Epithelium	d) Cartilage T.S	h) Non Striated Muscle
f) Cardiac Muscle	g) Striated Muscle	j) Male Germ Cell
i) Neuron	j) Male Germ Cell	k) Female Germ Cell.
11. Study of Stages of Mitosis and Meiosis

B) GENETICS

1. Biology and Life Cycle of Drosophila
2. Observation of Common Mutants of Drosophila- a. White eye, b. Bar eye, c. Yellow body, d. ebony, e. Vestigial wing.
3. Human Blood Grouping- A, B, AB and O, Rh factors.
4. Human Karyotyping- normal and Klinefelter, Down and Turner's Syndrome