Indira Gandhi
National Open University
School of Sciences

LSE-4 (L)
Laboratory Course-I

List of Exercises

1. Microscopy
2. Micrometry
3. Study of Cells
4. Study of Animal Tissues
5. Study of Plant Tissues
6. Preparation of Blood Smears of Frog and Man
7. Squash Technique for the Study of Mitosis and Meiosis
8. Preparation of Polytene Chromosomes from Salivary Glands of *Drosophila* Larvae
9. Smear Technique to Observe Sex-Chromatin in the Buccal Epithelial Cells of Human Females
10. Qualitative Biochemical Tests for Organic Constituents of Cells
11. Movement of Material in Cell-Diffusion and Osmosis
12. Study of Enzyme Action
13. Verification of Monohybrid Mendelian Ratio and Chi-Square Analysis
14. Verification of Dihybrid Mendelian Ratio and Chi-Square Analysis
15. A Study of Mendelian Traits in Humans
16. Study of Human Blood Groups
17. Determination of Allelic and Genotypic Frequencies
18. Pedigree Analysis from Pedigree Charts
19. Application of Probability to Problems in Genetics
20. Investigation of Human Karyotypes
21. Hydrogen in Concentration and Determination pH
22. Estimation of Salinity of Water Samples
23. Estimation of Dissolved Oxygen Content of Water Samples
24. Study of Community Structure by Quadrat, Line and Belt Method
25. Determination of Density, Frequency and Abundance of Species by Quadrat Method
26. Study of Xerophytes, Mesophytes and Hydrophytes
27. Study of Animal and Plant Relationships
28. Study of Faunal Composition of Chosen Habitats