LSE-08 (L): Laboratory Courses-II

List of Experiments

- 1. Test for the Viability of Seeds
- 2. Measurement of Rate of Oxygen Uptake in Plants
- 3. Separation of Leaf Pigments by Chromatography
- 4. Photoreduction of Dyes by Isolated Chloroplasts
- 5. Effect of Light Quality and Intensity on Photosynthesis
- 6. Induction of Nitrate Reductase by Nitrate Ions and Light
- 7. Microscopic Observations of the Opening and Closing of Stomata
- 8. Measurement of Water Potential of a Plant Tissue
- 9. Induction of α-Amylase Synthesis in Barley Grains By Gibberellic Acid
- 10. To Observe Elongation of Coleoptile by Treatment With 2,4-D
- 11. To Trace the path of Pollen Tube
- 12. To Observe the Germination of Pollen Grains Using a Hanging Drop Preparation
- 13. To Make Preparation of Stages in the Development of Embryo of Raphanus sativus
- 14. To Dissect Out Endosperm Haustoria from Cucumis sativus
- 15. Studies on Male and Female Gametophytes of Angiosperms
- 16. To Study Some Important Dicot and Monocot Families
- 17. Survey of Digestive Enzymes in Cockroach
- 18. Determination of Rate of Oxygen Consumption in Cockroach Using a Respirometer
- 19. Observations on the Microcirculation in the Web of Frog
- 20. Estimation of Haemoglobin, Total RBC and WBC in Human Blood
- 21. Tests for Excretory Products of Animals of Different Habitats
- 22. Recording a Muscle Twitch in frog
- 23. Study of Reproductive and Endocrine Organs in Rat/Mouse
- 24. Preparation of Vaginal Smears in Rat/Mouse
- 25. Study of Prepared Slides of the Developmental Stages of Frog
- 26. Staining and Mounting of Blastoderm of Chick Embryo
- 27. Studies on Chick Embryo Using Prepared Slides
- 28. An Exercise to Demonstrate the Role of Natural Selection in Evolving Adaptations
- 29. An Exercise to Demonstrate the Role of Natural Selection in Fixing Favoured Adaptations and Eliminating Maladaptations
- 30. An Exercise to Illustrate the Concept of Genetic Drift
- 31. Project Work on Herbarium
- 32. Collection, Identification and Preservation of Insects