

Odisha Board Class 11 Biology Practical Syllabus

BIOLOGY-I (Botany Practical) + 2 First year Science

Detailed syllabus

Study of:

1. Different parts of the Dissecting and Compound microscopes.
2. A typical Angiospermic plant.

Major experiment

3. Study and describe at least one common flowering plant from each of the following families (Malvaceae, Solanaceae, Fabaceae and Liliaceae) including dissection and display of floral whorls, and and other and ovary to show number of chambers.

4. Preparation and study of T.S. of dicot and monocot roots, and stem and leaf (Primary).
5. Study of mitosis in onion root tips.

Minor experiment:

6. Study of cells (Onion scale leaf, *Rhoeo* leaves)
7. Test for presence of starch, proteins and fats.
8. Study of starch grains and raphides.
9. Qualitative test for catalase activity by leaf disc method.
10. Modification of root, stem and leaf.
11. Study of flower and its parts.
12. Types of inflorescence.

Spotting:

- a. Study of the specimens and identification with reasons - bacteria, Oscillatoria, Spirogyra, Rhizopus, Mushroom, Yeast, Livewort, Moss, Fern, Cycas, one monocotyledonous plant, one dicotyledonous plant and one lichen.
- b. Study of tissues and diversity in shapes and sizes in plants (simple tissue, complex tissue)

through temporary/permanent slides.

