

Syllabus of Biology Practical – Class XII

List of Experiments

Section A – Physiology Experiment

- 1) To determine the pH and water holding capacity of garden or paddy field soil.
- 2) To detect presence of phosphate, nitrate and sulphate salts in paddy field soil.
- 3) To study B.O.D. of the given sample of pond water.
- 4) To study the effect of different temperature on the action of salivary amylase on starch.
- 5) To study the effect of different pH on the action of salivary amylase on starch.

Section B – Preparation of temporary stained slide

- 1) Onion root tip for mitosis
- 2) Onion/Rheo anther for meiosis.

Section C – Identification/Spotting

- 1) Adaptations in insect pollinated flower (Ocimum/Leucas/Salvia)
- 2) Adaptations in wind pollinated flower (Maize/Grass)
- 3) Study of T.S. of Testis (Any vertebrate)
- 4) Study of T.S. of Ovary (Any vertebrate)
- 5) Study of V.S. of Blastula (Any vertebrate)
- 6) Prepared pedigree chart of inability to roll the tongue.
- 7) Prepared pedigree chart of Widow's peak.
- 8) Identification of organisms and symptoms of disease caused.
 - a. Ascaris
 - b. Entamoeba
 - c. Plasmodium
- 9) Adaptation of plant to dry condition (Suitable specimen to be given)

- 10) Adaptation of plant to aquatic condition (Suitable specimen to be given)
- 11) Adaptation of animal to dry condition (Suitable specimen/chart/model to be given)
- 12) Adaptation of animal to aquatic condition (Suitable specimen to be given)

General Instructions with regards to the HSSC practical examination in Biology.

- 1) Duration of practical examination – 2 Hours
- 2) Maximum marks – 20 marks

Pattern of Practical examination and distribution of marks.

Q1. Any one Physiology experiment	– 06 marks
Q2. Any one temporary stained mount of the given material	– 04 marks
Q3. Identification of 6 Specimen	– 06 marks
Q4. Laboratory record/Journal and Viva	– 04 marks
Total	– 20 marks