

**SEMESTER-V**

**SKILL ENHANCEMENT COURSES - SEC -03**

**BZO-S 502: SERICULTURE**

**(Credits 2)**

**THEORY**

**Lectures: 30**

**M.M.: 70**

**UNIT-I**

**Classification** of commercial varieties of mulberry. Mulberry plantation establishment and cultivation practices. (04 Lectures)

**UNIT-II**

**Diseases of mulberry** – Fungal, bacterial, viral and Nematode diseases, Deficiency diseases and their remedial measures. (08 Lectures)

**UNIT-III**

**Silkworm rearing operations** – Chawki rearing and Late age rearing techniques. (04 Lectures). (08 Lectures)

**UNIT-IV**

**Physical and commercial characters of cocoons.** Reeling operations, Importance of by-products of Sericulture. (05 Lectures)

**UNIT-V**

**Economics of Sericulture** – Future and progress of Sericulture Industry in India. Prospects of Sericulture as Self-Employment venture. (04 Lectures)

**Note:** The question paper shall consist of two sections (A & B). Section A shall contain ten short answer type questions of six marks each and student has to attempt any five questions in about 150 words each. Section B shall consist eight long answer type questions of ten marks each and student shall be required to attempt any four questions in detail. Questions shall be uniformly distributed from the entire syllabus. The previous year paper can be used as a guideline and the following syllabus should be strictly followed while setting the question paper.

**BZO-C 551 PRACTICAL**

**M.M.: 70**

1. Study of permanent slides/photomicrographs and specimens of *Plasmodium vivax*, *Entamoeba histolytica*, *Trypanosoma gambiense*, *Schistosoma haematobium*, *Ancylostoma duodenale* and *Wuchereria bancrofti*
2. Study of arthropod vectors associated with human diseases: *Pediculus*, *Culex*, *Anopheles*, *Aedes* and *Xenopsylla*.
3. Study of insect damage to different plant parts/stored grains through damaged products/photographs.
4. Identifying feature and economic importance of *Helicoverpa* (*Heliothis*) *armigera*, *Papilio demoleus*, *Pyrrilla perpusilla*, *Callosobruchus chinensis*, *Sitophilus oryzae* and *Tribolium castaneum*
5. Visit to poultry farm or animal breeding centre. Submission of visit report
6. Maintenance of freshwater aquarium