

V V Sangha, Ballari

A D B First Grade College, Harapanahalli

Department of zoology

CERTIFICATE COURSE – SERICULTURE Lectures-30 Hours
SYLLABUS Theory (20) & Practical (10)

THEORY

UNIT-1.History, Importance and scope of sericulture.

UNIT-2. MORPHOLOGY OF MORICULTURE: Mulberry –origin and distribution, morphology of mulberry plant and cultivation of mulberry plant.

UNIT-3. MORPHOLOGY OF SILKWORM: Origin , distribution , lifecycle and morphology of egg , larva ,pupa and cocoon.

UNIT-4. REARING TECHNOLOGY: Environmental conditions needed for silkworm rearing ,Rearing equipments and housing , different races in practice. Harvesting rearing of chawki and late age worms.

UNIT-5. GRAINAGE TECHNOLOGY: Importance , Grainage activity techniques, silkworm seed production , Reproduction and commercial seed ,breeding station, styling , cocoon boiling and cocoon brushing.

UNIT-6. SILK TECHNOLOGY: Physical and commercial properties of silk ,silk processing of cocoon , processing of Reeling and raw silk testing.

UNIT-7. SILKWORM DISEASES: Silkworm diseases and pest and predators names and controlling measures.

UNIT-8. TYPES OF SILKWORMS: Mulberry and non-mulberry silkworm and uses.

Practicals

1. Life cycle of silkworm.
2. Morphology of egg larva, pupa & cocoon.
3. Dissection of digestive system of Bombyx mori.
4. Dissection of silk gland & nervous system of Bombyx mori.
5. Silkworm diseases.

Sowmya B.H.M.
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