

**B.Sc ZOOLOGY SYLLABUS UNDER CBCS
FOR V ..SEMISTER**

**ELECTIVE - VB
SERICULTURE**

BLOCK – I GENERAL SERICULTURE & MULBERRY

- Unit –1 : History of Sericulture in India; Financial Assistance from Government Agencies
Types of Silkworms and Distribution
- Unit –2 : Systematic Position and Propagation of Mulberry:
Harvesting, Preservation and Nutritive Value of Mulberry
- Unit –3 : Mulberry Breeding, Hybrid Vigour, Diseases, Pests,
Drought resistance-improved mulberry Varieties
- Unit –4 : The Factors Influencing the Growth of Mulberry
(Climate factors, Edaphic and Physiographic factors); Irrigation – Manuring
and Pruning
- Unit –5 : Pests and Diseases of Mulberry – Prevention and control
of Crop Production

BLOCK – II SILKWORM BIOLOGY AND DISEASES

- Unit –6 : Systematic Position –Morphology and Life History of Bombyx mori
Digestive, Circulatory, Respiratory, Excretory Systems, Reproduction and
Development
- Unit –7 : Silkworm Nutrition; Silk Gland
- Unit –8 : Pests and Diseases of Silkworm

BLOCK – III REARING TECHNOLOGY & REELING TECHNOLOGY

- Unit –9 : Grainage Activity and Egg Production
- Unit –10 : Rearing Requirements and Activities; Silkworm Rearing
- Unit –11 : Moulting, Growth Studies; Cocoon Production
- Unit –12 : Raw Materials and Conditioning
Reeling Methods and Operation. Raw Silk Production and Weaving –
Sericulture By – Products

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LABORATORY MANUAL & RECORD

BLOCK – I 1MULBERRY AND BIOLOGY OF SILKWORM

Unit –1 : Taxonomy of Mulberry and Non-Mulberry varieties; Identification and Control of Pests and Diseases of Mulberry Plants

Unit -2: Analysis of Soil parameters: pH, Nitrate, Potassium and Organic Carbon.

Unit –3 : Mulberry Cultivation

Unit –4 : Identification of Different Stages of Silkworm Life History

Unit –5 : Dissection of Silkworm Larvae

BLOCK – II REARING TECHNOLOGY and REELING TECHNOLOGY

Unit –6 : Grainage and Seed Cocoons

Grainage Activities

Unit –7 : Identification of Diseased Worms and Pests

Unit –8 : Model Rearing House and Equipment and Disinfection

Unit –9 : Rearing

Unit –10 : Mounting and Cocoon Harvesting

Unit –11 : Cocoon Testing

Unit –12 : Cocoon Cooking and Reeling

Re-reeling-Fibre quality
