

63(FY)SEM-1/ZOONSEC1013

2024

ZOOLOGY

Paper : ZOONSEC1013

(Non-Mulberry Sericulture)

Full Marks : 50

Pas Marks : 20

Time : Two hours

The figures in the margin indicate full marks for the questions.

1. Choose the correct answer : 1×5

(a) What are the environmental conditions that are crucial in silkworm rearing ?

- (i) Rainfall
- (ii) Snowfall
- (iii) Sunny days
- (iv) Humidity

- (b) Which one is the key aspects of entrepreneurship in Non-Mulberry Sericulture ?
- (i) Decreasing employment opportunities
 - (ii) Lack of demand for non-Mulberry silk products
 - (iii) Lack of government support
 - (iv) Economics
- (c) Which of the following best describes the term 'Sericulture'?
- (i) Cultivation of mulberry plants for sericulture
 - (ii) Breeding of silkworms for silk production
 - (iii) The entire process of silk production through cultivation of silkworms
 - (iv) Production of silk from non-mulberry sources
- (d) What is the primary purpose of spinning and reeling of silk in sericulture ?
- (i) To prepare the silk for weaving
 - (ii) To remove impurities from the silk
 - (iii) To increase the weight of the silk
 - (iv) To change the colour of the silk

- (e) How the pests and diseases primarily controlled in non-mulberry sericulture ?
- (i) Using chemical pesticides
 - (ii) Biological control methods
 - (iii) Ignoring them due to their minimal impact
 - (iv) Quarantining affected areas

2. Answer the following question (**any five**) : 2×5=10

- (a) Write the main differences between Mulberry and Non-Mulberry Sericulture.
- (b) List and explain the various environment conditions required for successful silkworm rearing.
- (c) What are the major diseases affecting in Eri and Muga silkworms.
- (d) Write the significance of entrepreneurship in Non-Mulberry Sericulture.
- (e) How do the harvesting and storage of cocoons differ between Mulberry and Non-Mulberry sericulture ?
- (f) Explain the role of formalin and bleaching powder in disinfection during silkworm rearing.
- (g) Explain the process of spinning and reeling of silk.

3. Answer the short questions (**any five**) : . 5×5=25

- (a) Describe the nature of silk produced by Eri Silk-worm.
- (b) Mention the rearing technology involved in Muga silkworm rearing.
- (c) Explain different types of mountages used in silk production.
- (d) Write about the prospects of Non-Mulberry Sericulture in India.
- (e) Describe the process of spinning and reeling of silk in non-mulberry sericulture.
- (f) Give a note on the common pests of Eri silkworm.
- (g) Describe different types of non-mulberry silkworms
- (h) Explain the economic prospects of Sericulture industry in North-Eastern Region.

4. Answer the following question (**any one**) :10×1=10

- (a) Describe the life cycle of Eri silkworm highlighting the stages and its significance in Non-Mulberry Sericulture.
- (b) Explain the process of rearing technology in Non-Mulberry Sericulture, focusing on the environmental conditions required for successful silkworm rearing.