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63 (FY)SEM-1/SEC/ZOONSEC1013

2025

ZOOLOGY

(SEC)

Paper : ZOONSEC1013

(Non-Mulberry Sericulture)

Full Marks : 50

Pass Marks : 20

Time : Two hours

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

1. Choose the correct answer : 1×5=5
- (a) Voltinism refers to the :
- (i) Number of spindle filament produced per year
 - (ii) Number of broods an organism produced per year
 - (iii) Number of silk produced per year
 - (iv) Number of quality cocoon produced per year

- (b) Silk is known as :
- (i) Queen of fibers
 - (ii) King of fibers
 - (iii) Soft gold
 - (iv) Golden fiber
- (c) Which of the following is a challenge to the development of entrepreneurship in sericulture ?
- (i) Enormous expert sericulture
 - (ii) Efficient raw material manufacturing capacity
 - (iii) Enormous production capacity
 - (iv) Non-availability of quality seed
- (d) Which of the following is a silkworm disease caused by fungal infection ?
- (i) Flacherie
 - (ii) Muscardine
 - (iii) Pebrine
 - (iv) Grasserie
- (e) The optimum humidity for the growth of silkworm should be :
- (i) 65% Relative humidity
 - (ii) 70% Relative humidity
 - (iii) 75% Relative humidity
 - (iv) 95% Relative humidity

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

- (a) Mention some varieties of Non-mulberry silk fabrics.
- (b) What are the common pest affecting Muga and Eri silkworm ?
- (c) Write a short note on process of silk reeling.
- (d) What do you mean by chaw ki hearing ?
- (e) What is a moutage ?
- (f) List the characters considered during collection of seed cocoons.
- (g) How are seed cocoons preserved in grainage room ?

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

- (a) Describe the structure of silk gland with labelled diagram.
- (b) Write a note on the food plants of Eri silkworm.
- (c) Describe the process of disinfection of rearing house.

- (d) What are the sources of unclear bed during rearing of Eri silkworm? Describe the various methods of bed cleaning. $2+3=5$
- (e) Explain the effect of temperature and its regulation during silkworm rearing.
- (f) Write a note on the economic prospects of sericulture industry in North-Eastern region.
- (g) Write a note on the larval maintenance required during rearing of muga silkworm.
- (h) Describe the components of rearing in non-mulberry sericulture.

4. Answer the following question : **(any one)**
 $10 \times 1 = 10$

- (a) Discuss the major diseases of silkworm with its symptoms. Mention the preventive measures that should be adopted. $6+4=10$
- (b) Describe the life cycle of muga silkworm with labelled diagram.
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