

478/Zool UG/4th Sem./ZOOL-H-SEC-T-2(A&B)/24

U.G. 4th Semester Examination - 2024

ZOOLOGY

[HONOURS]

Skill Enhancement Course (SEC)

Course Code : ZOOL-H-SEC-T-2(A&B)

Full Marks : 40

Time : 2 Hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer all the questions from Selected Option.

OPTION-A

ZOOL-H-SEC-T-2A

(Sericulture)

1. Answer any five of the following: $2 \times 5 = 10$
 - a) Write the chemical composition of silk.
 - b) State the location and function of Lyonnet's gland.
 - c) Why a caterpillar was killed as soon as the cocoon stage is completed?
 - d) What is meant by stifling in silk production?
 - e) What is prolegs? State its location.
 - f) What is Chandrika?

[Turn Over]

g) What are the indigenous races of silkworm?
Give an example.

h) Mention the two host plants of Eri silkworm.

2. Answer any two of the following: $5 \times 2 = 10$

a) State the advantages and disadvantages of using Chandrika. $2\frac{1}{2} + 2\frac{1}{2}$

b) Describe the structure of silk gland with suitable diagram. $3 + 2$

c) Discuss the races of silk moth on the basis of voltinism with example.

d) Write the characteristics of good quality cocoon.

3. Answer any two of the following: $10 \times 2 = 20$

a) Write the taxonomic position of silkworm. Describe the life cycle of mulberry silkworm with suitable diagram. $2 + 8$

b) Discuss briefly about any five basic rearing equipments used in rearing of silkworm with diagram. Mention any one pest of silkworm with its damaging nature and control measure. $5 + 5$

c) Who is called the "Goddess of Silkworms" and why? Write the causative agents, symptoms and control measures of Muscardine and Flacherie disease of silkworm. $3 + 7$

d) What are the prospects of sericulture in India? Highlight the challenges for the future of Indian sericulture industry. $5 + 5$