

U.G. 4th Semester Examination - 2022

ZOOLOGY

[HONOURS]

Skill Enhancement Course (SEC)

Course Code : ZOOL-H-SEC-T-03

(Sericulture)

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.

1. Answer any **five** questions of the following:

2×5=10

- a) What is silk?
- b) What is chandraki?
- c) What is moriculture?
- d) What do you mean by a Danier?
- e) Why do you stifle the cocoon?
- f) Explain the composition of silk.
- g) Write the causative agents of court and pebrine of silk moth.
- h) Name two host plants of tasar moth.

2. Answer any **two** questions of the following:

5×2=10

- a) i) What are the environmental conditions required for seed cocoon preservation?
- ii) What do you mean by latkoa, matka, reeled silk and spun silk? 2+3
- b) i) Write down the name of the indigenous races of silkworm with their distribution and characteristics.
- ii) What is the correct age of eggs for hot acid treatment? 4+1
- c) Describe the structure of silk gland and mention the function of each part. 5
- d) i) Write down the characteristic features of matured larva of *Bombyx mori*.
- ii) Distinguish between male and female moth of *Bombyx mori*. 3+2

3. Answer any **two** questions of the following:

10×2=20

- a) i) Explain in detailed about the life-cycle of *Bombyx mori*.
- ii) Distinguish between hibernating and non-hibernating eggs of silkworm. 8+2

[Turn Over]

- b) i) What is spinning? Discuss in brief the process of spinning the cocoon. 1+5
- ii) Write down the symptoms and preventive measures of any two diseases of Mulberry plants. 4
- c) Briefly state the symptoms and prevention of different bacterial and fungal diseases in different stages of mulberry silkworm. 5+5
- d) i) What is voltinism? Distinguish among uni, bi and multivoltine races of silkworm. 1+2
- ii) Briefly discuss about the useful by-products of the silk industry. 3
- iii) Write down the characteristics of fertilized eggs of silkworm. 3
- iv) What do you mean by Rendita? 1
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