

# B.Sc. 4<sup>th</sup> Semester (Honours) Examination, 2021

Subject: ZOOLOGY

Course ID: 42615 Course Code: SH/ZOO/405/SEC-2

Course Title: Sericulture

Full Marks : 40

Time : 2 Hours

*The figures in the right hand side margin indicate marks.  
Candidates are required to give their answers in their own words as far as practicable.*

1. Answer any five of the following questions: 2×5=10

- a. What do you mean by Exotic and Indigenous races of silkworm? Give examples. [1+1]
- b. Mention univoltine multi-voltine races of silkworm. [1+1]
- c. Which is the most expensive silk? Which type of silk is obtained from Bombyx mori? [1+1]
- d. What is the difference between spider silk and silkworm silk? Which is the stronger between spider silk and silk worm silk? [1+1]
- e. 'Pit' and 'Paired Row' system of mulberry plantation. [1+1]
- f. State the importance of late age rearing. What are the disadvantages of late age rearing? [1+1]
- g. What do you mean by mountages in sericulture? Name the types of it. [1+1]
- h. What is entrepreneurship? Why is it needed in sericulture? [1 +1]

## UNIT-II

2. Answer any four of the following questions: 5×4=20

- a. How silk is used as bio reactor nowadays? [5]
- b. What is CSB and where does it located? What is its vision and mission? (1+1)+(1+2)=5
- c. State the role of formalin, bleaching powder and RKO in sericulture. What is DFLs sericulture? What do you mean by Ahimsa silk? [1+1+1+1+1]
- d. What is Chandraki in sericulture? Which chemical is dusted on worms before each moult and why? [3+2]
- e. Define how Uzi fly and dermestid beetles affect sericulture. [2.5+2.5]
- f. Briefly explain silk route. Briefly describe the spinning, harvesting and storage of cocoons. [2+1+1+1]

## UNIT-III

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

10×1=10

1. Elaborate the life cycle of *Bombyx mori* with suitable diagrams. Write down the economic importance of sericulture in India. [7 + 3]
2. What is pepper disease? State the cause and prevention of this disease. Which disease destroys the larval gut in silkworm? What do you mean by Muscardine, Grasserie and Flacherie in sericulture? [2+2+2+1+1+1+1]

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