B.Sc. 3rd Semester (Hons.) Examination, 2020 (CBCS)

Subject: Zoology

Paper: SEC-T-I

(Apiculture)

Full Marks: 40 **Time: 2 Hrs**

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

*Answer any **eight** questions of the following:* 8×5=40

1. Describe about 'piping of honeybee'.

2. Mention about the mode of infection, signs, diagnosis, and treatment of *Varroa jacobsoni* mite.

3. Describe briefly the Langstroth beehive.

4. Define proboscis and mention the beneficial uses of proboscis.

5. Illustrate how artificial feeding is important in apiculture.

6. Mention any two diseases of honey bee and write down the control measures to prevent these diseases.

7. State the chemical composition of queen mandibular pheromone and write the 'robbing behavior' of worker bees.

8. Give an account on selection of site and bees for an apiary.

9. Briefly describe the role and activities performed by worker bees in a colony.

10. Mention the composition and food value of honey.

Paper: SEC-T-4

(Sericulture)

Full Marks: 40   **Time: 2 Hrs**

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

*Answer any **eight** questions of the following:*   8×5=40

1. What is sericulture? What is 'silk-route'? What is the importance of sericulture?

2. Write down the chemical composition of 'silk' and describe the structure of a silk gland with a suitable diagram.

3. What do you mean by Mulberry and non-Mulberry sericulture. Comment on non-Mulberry silk production in India?

4. Briefly describe the life cycle of *Bombyx mori*.

5. Site two examples of common Mulberry trees with a short note on Moriculture.

6. What is RKO? Write about the ideal conditions required for rearing of silkworm.

7. Write down the key steps involved in silk production.

8. Give a brief account on major diseases of Mulberry silkworm.

9. Write the prospects of mulberry and non-mulberry sericulture in India.

10. Which states are famous for sericulture in India? Add a note on Employment potentiality on those states.