

UNDERGRADUATE SEMESTER-III EXAMINATIONS, 2021

Subject: ZOOLOGY

Course ID: 32615

Course Code: SH/ZOO/305/SEC-1

Course Title: APICULTURE

Full Marks: 40.

Time: 2 Hours

*The figures in the margin indicate full marks
Answer all the questions.*

UNIT I

1. Answer *any five* of the following questions: (2 x 5 = 10)
- a) What is Propolis?
 - b) What is the use of bee venom?
 - c) Name two diseases and its causal organism of honeybee.
 - d) Mention the life span of a queen and worker bee.
 - e) What do you mean by apiary?
 - f) Mention the components of honey.
 - g) Write the disadvantages of indigenous honey extraction method.
 - h) In which part of the body in honey bee, pollen basket is found?

UNIT II

2. Answer *any four* of the following questions: (5 x 4 = 20)
- a) Describe the use of bee wax. What do you mean by bee forage? (3+2=5)

- b) Write short note on (2½ + 2½)=5
- i. Bee pasturage.
 - ii. Bee hive.
- c) Name the hormone secreted by the queen honey bee. What are the functions of worker bee? (1+4)=5
- d) Discuss the social behavior of honey bee. 5
- e) Write the advantages and disadvantages of bee keeping. (2½ + 2½)=5
- f) What is the significance of round and wag-tail dances in bee communication? 5
- g) Write short note on bee swarming. 5

UNIT III

3. Answer *any one* of the following questions: (1 x 10 = 10)
- a) Briefly describe about the selection of good apiary site and selection of good bee. What is pollen substitute and pollen supplement? (3 + 3 + 2 + 2)=10
- b) What is the economic importance of apiculture? Describe the Langstroth bee box with proper diagram. (4 + 6)=10

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