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Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. Hons. (Agriculture) (Sem.–6)
MANAGEMENT OF BENEFICIAL INSECTS
Subject Code : BSAG-605-19
M.Code. : 91796
Date of Examination : 24-05-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly :

- a. Name “Father of Modern Beekeeping” in India and his role in beekeeping.
- b. What do you mean by absconding? Why do the bees abscond?
- c. What are the important natural enemies of honeybees?
- d. What are uni-, bi- and multi- voltine races of the silkworm?
- e. Define silk, stifling, reeling and denier.
- f. Define lac culture. List the major host plants of lac insect in India.
- g. Differentiate between predator and parasitoid by giving suitable examples.
- h. What honeybees play role to the beekeepers and farmers?
- i. What is scope of beekeeping in India and its economic importance?
- j. What are foraging and swarming in honeybees?

SECTION-B

2. Write note on 4 honeybee species. How an emergency queen is produced in the colony?
3. What are the major diseases of silkworm? List their general control measures.
4. Name insect orders which play major role in biological control of insect pests. Explain the mass multiplication technique for *Trichogramma chilonis*.
5. Define terms harvesting and mounting, transformation, supersedure and swarming? How food affects the transformation of three bee castes?
6. Where one can start beekeeping? Give a brief description of bee hives-with some examples of some important hives.

SECTION-C

7. Describe insects playing role as pollinator, weed killer and scavenger with their importance with suitable examples.
8. Elaborate coupe system of lac cultivation. Describe natural enemies of lac insect and their control strategies.
9. How honeybees play an important role in cross pollination? Give their exploitation and case studies in few selected crops. List bees hive products and their economic importance.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.