



19/TDC/ODD/SEM/ZOOSSEC-301T/042

TDC (CBCS) Odd Semester Exam., 2019

ZOOLOGY

(3rd Semester)

Course No. : ZOOSEC-301T

(Apiculture)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer **all** questions

UNIT—I

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

2×2=4

(a) What is apiculture?

(b) Write the scientific names of two honey-
bee species that are cultured in India.

(c) Write a short note on bee-dance.



2. Answer any *one* of the following questions : 6

- (a) Give an account of different castes of a honeybee colony.
- (b) Describe the structural morphology of honeybee with a neat diagram.

UNIT—II

3. Answer any *two* of the following questions : 2×2=4

- (a) Write a short note on bee pasturage.
- (b) Name different beekeeping equipments used in apiculture.
- (c) Write two important criteria used for the selection bee species.

4. Answer any *one* of the following questions : 6

- (a) Describe the Langstroth type of beehive.
- (b) Describe the modern method of extraction of honey.

UNIT—III

5. Answer any *two* of the following questions : 2×2=4

- (a) Name some viral diseases of honeybee.

- (b) Mention some bacterial diseases of honeybee.

- (c) Mention different enemies of honeybee.

6. Answer any *one* of the following questions : 6

- (a) Write the causes and management of various viral diseases of honeybee.

- (b) Describe the process of management of various enemies of honeybee.

UNIT—IV

7. Answer any *two* of the following questions : 2×2=4

- (a) Enlist the products of apiculture industry.

- (b) Write a short note on pollen.

- (c) What is propolis?

8. Answer any *one* of the following questions : 6

- (a) Describe the chemical composition, storage and uses of honey.

- (b) What is beeswax? Write the process of collection and uses of beeswax.



(4)

UNIT—V

9. Answer any *two* of the following questions : 2×2=4

- (a) What is cross-pollination?
- (b) What is horticulture?
- (c) Why are bees important for cross-pollination?

10. Answer any *one* of the following questions : 6

- (a) Write the recent efforts employed in beekeeping industry.
- (b) Describe the modern methods of bee-keeping used for cross-pollination in horticulture.

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