

## 2022/TDC/ODD/SEM/ ZOOSEC-301T/032

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# TDC (CBCS) Odd Semester Exam., 2022

### **ZOOLOGY**

( 3rd Semester )

Menden the grouthports of boneybes

Course No. : ZOOSEC-301T

Write about the social organization of a

## ( Apiculture ) sedvaned

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

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- 1. Answer any three questions from the following: 1×3=3
  - (a) What is apiculture?
  - (b) "Bees are polymorphic." Why?
  - (c) Mention the scientific names of two common honeybee species of India.
  - (d) Write the names of different body parts of a honeybee.

(Turn Over)

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- 2. Answer any one question from the following:
  - Classify honeybee up to order with examples.
  - Mention the mouthparts of honeybee.
- 3. Answer any one question from the following:
  - Write about the social organization of a honeybee colony.
  - Discuss the structure of honeybee with a neat diagram.

#### UNIT-II

- Answer any three questions the  $1 \times 3 = 3$ following:
  - What are the different types of beehives used in bee culture?
  - Mention the bee-keeping equipments.
  - species Name the bee apiculture.
  - Define bee pasturage.
- 5. Answer any one question from the following:
  - Write a note on movable frame hive.
  - Write the composition of honey.

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- 6. Answer any one question from the following:
  - (a) Describe the Langstroth-type of beehive. Interior and ger un
  - (b) How is honey extracted from a honeybee colony? number of the medic wow

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#### UNIT-III

- 7. Answer any three questions from following:  $1 \times 3 = 3$ 
  - What are the predators of honeybee?
  - Mention two viral diseases of honeybee.
  - bacterial diseases Name honeybee.
  - Mention the enemies of honeybee.
- 8. Answer any one question from the following:
  - Why are birds important enemies of honeybee?

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Write a note on Nosema disease of honeybee.

J23/150 (Turn Over)



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9.	Answer any one question from the following:	- 5

- (a) Discuss the causes and management of common bacterial diseases of honeybee.
- (b) Write about the predators of honeybee and their management.

#### UNIT—IV

- 10. Answer any three questions from the following: 1×3=3
  - (a) Write about the products of apiculture industry.
  - (b) What do you mean by bees wax?
  - (c) Write about bee venom.
  - (d) What is pollen?
- 11. Answer any one question from the following: 2
  - (a) What do you mean by propolis?
  - (b) What is royal jelly?

J23/150 (Continued)

#### ( (5)

12. Answer any one question from the following:

(a) Write about the method of storage of honey. Add a note on the important uses of honey.

(b) Discuss the process of collection of bees-wax.

#### UNIT-V

- 13. Answer any three questions from the following: 1×3=3
  - (a) Define pollination.
  - (b) Write about cross-pollination.
  - (c) Define horticulture.
  - (d) Which bee species is a good pollinator?
- **14.** Answer any *one* question from the following:
  - (a) State the importance of honeybees in cross-pollination.
  - (b) Mention the pollinating agents.

J23/150

(Turn Over)

- 15. Answer any one question from the following: 5
  - (a) Describe the recent efforts employed in bee-keeping industry.
  - (b) Mention the modern methods of bee-keeping used for cross-pollination in horticulture.

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