

**2023/TDC(CBCS)/ODD/SEM/  
ZOOSEC-301T/032**

**TDC (CBCS) Odd Semester Exam., 2023**

**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*

**SECTION—A**

**Answer fifteen questions, taking any three from  
each Unit : 1×15=15**

**UNIT—I**

- 1. Who fabricated the movable frame hive for beekeeping?**
- 2. Why bees are known as 'polymorphic'?**
- 3. Name the order to which honeybee belongs.**
- 4. What do you mean by drone bee?**

## UNIT—II

5. What is royal jelly?
6. Name the different castes of honeybee.
7. What do you mean by bee pasturage?
8. Name the family to which stingless bee belongs.

## UNIT—III

9. Name some predators of honeybee.
10. Name the bee species ideal for apiculture.
11. Name two diseases of honeybee.
12. Name the causative organism of American foulbrood.

## UNIT—IV

13. What is Ghedda wax?
14. What do you mean by granulation of honey?
15. What is pollen?
16. Name at least one Tanganyika method.

## UNIT—V

17. What is entomophily?
18. Write the full form of NBHM.
19. What is cross-pollination?
20. Which bees are considered as the best pollinators?

## SECTION—B

Answer *five* questions, taking *one* from each Unit :

2×5=10

## UNIT—I

21. What is bee dance?
22. Describe the mouthpart of honeybee.

## UNIT—II

23. Name the different parts of modern beehive.
24. Note down the composition of honey.

## UNIT—III

25. Name the different methods used for keeping away ants from bee colony.
26. Write a note on Nosema disease of honeybee.

## UNIT—IV

27. Write a note on the uses of honey.
28. What is propolis?

## UNIT—V

29. What is beeyard?
30. What do you mean by collecting a swarm for beekeeping?

SECTION—C

Answer *five* questions, taking *one* from each Unit :

5×5=25

UNIT—I

31. Write a note on nuptial flight.
32. Discuss the social organization of a honeybee colony.

UNIT—II

33. Write down the principle of selecting bee species for apiculture.
34. Discuss in detail the different methods of extraction of honey.

UNIT—III

35. Discuss in detail the management of predators of honeybee.
36. State the symptoms and causative organisms of Amoebic and Acarine diseases.

UNIT—IV

37. Discuss in detail the commercial use of propolis.
38. Name the products obtained from apiculture. Write a note on the uses of apitoxin.

UNIT—V

39. Note down the importance of honeybee in horticulture.
40. Discuss the recent efforts being taken in beekeeping industry for its upliftment.

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