



**2021/TDC/CBCS/ODD/
ZOOSEC-301T/032**

**TDC (CBCS) Odd Semester Exam., 2021
held in March, 2022**

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 any *fifteen* questions : $1 \times 15 = 15$

1. Define apiculture.
2. Write the scientific names of two honeybee species that are reared in India.
3. Why are bees polymorphic?



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4. Mention the main body parts of honeybee.
5. Name different types of beehives.
6. Which species of bee is best for apiculture?
7. Write the names of beekeeping equipments.
8. What is meant by bee pasturage?
9. Name two bacterial diseases of honeybee.
10. Mention a few predators of honeybee.
11. Write the names of two viral diseases of honeybee.
12. Who are the enemies of honeybee?
13. Enlist the products of apiculture industry.
14. What is beeswax?
15. What is bee venom?
16. What is pollen?
17. What is pollination?
18. What do you mean by cross-pollination?
19. What is horticulture?
20. Name the bee species that is a good pollinator.

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(Continued)

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SECTION—B

Answer any five questions :

2×5=10

21. Write a short note on mouthparts of honeybee.
22. Write the classification of honeybee up to order. Name different types of bees found in the world.
23. What is movable frame hive?
24. Write two important criteria used for selection of bee species for apiculture.
25. Write a short note on Nosema disease of honeybee.
26. "Birds are important enemies of honeybees." Justify the statement.
27. Mention the composition of honey.
28. What is propolis?
29. How are bees important in cross-pollination?
30. Write a short note on pollinating agents.

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(Turn Over)



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SECTION—C

Answer any *five* questions :

5×5=25

31. Give an account of social organization of honeybee colony.
32. Describe the structural morphology of honeybee with a neat diagram.
33. Describe the Langstroth type of beehive.
34. Describe the modern method of extraction of honey.
35. Write the causes and management of various viral diseases of honeybee.
36. Discuss the process of management of various predators of honeybees.
37. Describe the process of storage of honey. Add a note on the use of honey.
38. Write the process of collection of beeswax.
39. Write about the recent efforts employed in beekeeping industry.
40. Discuss the modern methods of beekeeping used for cross-pollination in horticulture.

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