CENTRAL LIBRARY N.C.COLLEGE

2020/TDC (CBCS)/ODD/SEM/ ZOOSEC-301T/032

TDC (CBCS) Odd Semester Exam., 2020 held in March, 2021

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 of the following as directed: 1×15=15

- 1. The movable frame hive for beekeeping was fabricated by _____.

 (Fill in the blank)
- 2. In which year beekeeping was started at Pusa?

10-21**/73**

(Turn Over)

(2)

- 3. To which order of insects the bee belongs?
- 4. Name the three families of honey producing social bees.
- 5. Name the family of stingless bees.
- 6. What are the castes in a bee colony?
- 7. What is royal jelly?
- 8. State the composition of royal jelly.
- 9. What is bee propolis?
- 10. What is a queen excluder?
- 11. Name the bee species ideal for apiculture.
- 12. What is bee pasturage?
- 13. Name the Indian variety of commercial bee hive.
- 14. Nosema disease is caused by a protozoan called _____.

 (Fill in the blank)

- 15. The causative organism of American broodfoul is _____.(Fill in the blank)
- 16. What do you understand by 'Isle of Wight'?
- 17. Name the avian enemies of honeybee.
- 18. What is the treatment for Acarine disease?
- 19. Write the composition of honey.
- 20. What is granulation of honey?
- 21. What is Ghedda wax?
- 22. What is Tanganyika method of bee wax extraction?
- 23. Mention the uses of bee wax.
- 24. What is the specific gravity of pure honey?
- 25. What is a top-bar hive?
- 26. Which bees are the best pollinators?
- 27. Name the nut which is entirely dependent on honeybee for pollination.

28.	What	is	Entomophily?
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- 29. What is NBHM?
- **30.** What is the fund allocated by Indian Govt. for beekeeping under Atma Nirbhar Abhiyan?

SECTION—B

Answer any five of the following questions: 2×5=10

- 31. What is bee dance?
- **32.** Write a note on social organization of bee colony.
- 33. What are the parts of a modern bee hive?
- 34. Name the beekeeping equipment used.
- **35.** What are the different types of broodfoul disease?
- **36.** Mention the preventive measures used to keep away ants from bee colony.
- **37.** Mention the uses of honey other than as food.

38.	What	are	the	industrial	uses	of	bee	wax?

- **39.** What do you understand by collecting a swarm for beekeeping?
- 40. What is a 'beeyard'?

SECTION-C

Answer any five questions

41. What is nuptial flight? Who takes part in it? 3+2=5

- **42.** What are the responsibilities discharged by worker bees in their lifetime?
- **43.** Differentiate between the indigenous and modern method of extracting honey. 5
- **44.** Write the principles for selecting bee species for apiculture.
- 45. State the symptoms and causative organisms of Amoebic and Acarine diseases. 2½+2½=5
- **46.** What are the products obtained from apiculture? State the use of apitoxin. 3+2=5

5

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(6)

47.	What is bee K-wing disease? What is the causative organism? 3+2	=5
48.	What are the commercial uses of propolis?	5
49.	What are the aims of National Beekeeping and Honey Mission?	5
50.	Write about the importance of honeybee in horticulture.	5

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