CENTRAL LIBRARY N.C.COLLEGE

2023/FYUG/ODD/SEM/ ZOOSEC-101T/035

FYUG Odd Semester Exam., 2023 (Held in 2024)

ZOOLOGY

(1st Semester)

Course No.: ZOOSEC-101T

(Apiculture)

Full Marks: 50
Pass Marks: 20

Time: 2 hours

The figures in the margin indicate full marks for the questions

SECTION-A

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

UNIT-I

- 1. Define Apiculture.
- 2. Honey bees belong to which phylum?

(Turn Over)

(3)

- 3. Name the castes of honey bees.
- 4. Name the body parts of honey bee.

UNIT-II

- 5. Define bee hive.
- 6. What is 'Queen excluder'?
- 7. Why smoker is used in apiculture?
- 8. What are bee floras?

UNIT-III

- 9. Name two bacterial diseases of honey bees.
- Name the major wasp predators of honey bee colonies.
- 11. Name the endoparasitic mite infesting trachea of adult honey bee.
- 12. Name one fungal disease of honey bees.

UNIT---IV

- 13. What is pollen comb?
- 14. What is bee wax?

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(Continued)

- 15. What is the food of honey bee queens?
- 16. What are propolis?

Unit-V

- 17. What is cross-pollination?
- 18. Define the term horticulture.
- 19. What do you understand by 'entomophily?
- 20. What is Nasonov pheromone?

SECTION-B

Answer five questions, selecting one from each
Unit: 2×5=10

Unit—I

- 21. What is Royal jelly?
- 22. Why do the honeybees perform bee dance?

UNIT-II

- 23. Write two advantages of rearing bees in modern bee hives.
- 24. Mention at least two criterions for selecting right type of bee for culture.

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(Turn Over)

(5)

UNIT-III

- 25. Name the Protozoan causing Amoeba disease in honey bees. Write two symptoms of the disease.
- 26. Mention the symptoms of Nosemosis.

UNIT-IV

- 27. Write the chemical composition of honey.
- 28. Mention few uses of pollen.

I INIT--V

- 29. Name two climatic factors that affect the honey bee activity.
- **30.** Name two technologies that have revolutionized modern bee keeping practices.

SECTION-C

Answer *five* questions, selecting *one* from each Unit: 5×5=25

UNIT-I

- 31. What is social organization? Describe in brief social organization in Honey bees. 1+4=5
- 32. Explain the communication in honey bees.

UNIT--II

- **33.** Describe the structural organization of modern bee hive with appropriate illustration.
- **34.** Illustrate with diagram different types of bee-keeping equipments required in apiculture.

UNIT-III

- 35. Describe briefly about the nature of damage caused by Greater Wax moth. How would you manage the infestation of this pest? 3+2=5
- **36.** Write short notes on any two of the following: $2\frac{1}{2}\times2=5$
 - (a) American foul brood
 - (b) Thai sac brood disease
 - (c) Chalk brood disease

UNIT---IV

37. Discuss the physical properties of honey.

Write few uses of honey. 2+3=5

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(6)

- 38. Write short notes on the following: $2\frac{1}{2} \times 2=5$
 - (a) Chemical composition and uses of bee wax
 - (b) Medicinal value of honey bee products

UNIT-V

- **39.** Discuss the importance of apiculture as a source of employment and livelihood.
- **40.** Why bees are called efficient pollinators? Suggest various methods for bee management in horticultural gardens. 1+4=5

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