

**2025 / FYUG / ODD / SEM /
ZOOSEC-101T / 333**

FYUG Odd Semester Exam., 2025

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.*

UNIT—I

1. Answer any *three* questions from the
following : $1 \times 3 = 3$

(a) Who is known as the 'Father of Modern
Beekeeping'?

(b) Which honeybee species is known as
the 'Little Bee'?

(c) Which caste of honeybee has a barbed
sting?

(d) Name the family of stingless bee.

2. Answer any one question from the following:

- (a) Write the scientific names of two honeybee species that are cultured in India.
- (b) Write a short note on bee dance.
3. Answer any one question from the following:
- (a) Give an account of different castes of honeybee colony.
- (b) What are the responsibilities discharged by worker bees in their lifetime?

UNIT—II

4. Answer any three questions from the following:

- (a) Who is called an apiarist?
- (b) What is honey super?
- (c) Name one artificial beehive.
- (d) What is the use of bee smoker?

5. Answer any one question from the following:

- (a) Mention the advantages of using artificial beehive.
- (b) Write the advantages of modern honey extraction over indigenous methods.

6. Answer any one question from the following: 5

- (a) Mention the important criteria for selecting honeybee species for apiculture. Add a note on bee pasturage. 3+2=5
- (b) Mention different bee-keeping equipment used in apiculture and state their uses.

UNIT—III

7. Answer any three questions from the following: 1×3=3

- (a) What do you mean by Isle of Wight?
- (b) Name the causative organism of Nosema disease.
- (c) Name the fungal disease of honeybee.
- (d) Name one avian enemy of honeybee.

8. Answer any one question from the following: 2

- (a) Mention the symptoms of Nosemosis.
- (b) Mention preventive measures used to keep away ants from bee colony.

(4)

9. Answer any one question from the following : 5

- (a) State the causative organisms and symptoms of Amoebic and Acute diseases of honeybee. 3+2=5

- (b) Describe briefly about the damage caused by greater Wax moth. Add a note on management strategies from the infestation of this pest. 2½+2½=5

UNIT—IV

10. Answer any three questions from the following : 1×3=3

- (a) What is beeswax?
(b) What are propolis?
(c) What is granulation of honey?
(d) What is bee venom?

11. Answer any one question from the following : 5

- (a) Write a short note on pollen.
(b) Mention the chemical composition of honey.

(5)

12. Answer any one question from the following : 5

- (a) Mention the commercial uses of honey and propolis. 3+2=5
(b) Write the process of collection and uses of beeswax.

UNIT—V

13. Answer any three questions from the following : 1×3=3

- (a) What is horticulture?
(b) What is entomophily?
(c) What is nasonov pheromone?
(d) What is beeyard?

14. Answer any one question from the following : 2

- (a) Why are honeybees called excellent pollinator?
(b) What are the objectives of NBHM?

15. Answer any one question from the following : 5

- (a) Write about the recent efforts employed in beekeeping industry.
(b) Describe modern methods of artificial beekeeping for cross-pollination in plants.

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