

**2024/FYUG/ODD/SEM/  
ZOOSEC-101T/065**

**FYUG Odd Semester Exam., 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*

**UNIT—I**

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

- (a) To which order does honey bee belong?
- (b) Define apiculture.
- (c) Name the family of stingless bee.
- (d) Mention main body parts of honey bee.

2. Answer any *one* of the following : 2

- (a) How do honey bees communicate?
- (b) Write a short note on nuptial flight.

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( Turn Over )



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3. Answer any *one* of the following : 5
- (a) Give a brief account on the social life of honey bee.
- (b) Describe briefly biology of honey bee with suitable illustrations.

**UNIT—II**

4. Answer any *three* of the following : 1×3=3
- (a) What is apiary?
- (b) What is bee space?
- (c) Which species of bee is best for apiculture?
- (d) What is a queen excluder?
5. Answer any *one* of the following : 2
- (a) Write a short note on bee pasturage.
- (b) Mention the important criteria for selecting right type of honey bee for apiculture.
6. Answer any *one* of the following : 5
- (a) Describe the structural organization of Langstroth hive.

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- (b) Describe the process of extraction of honey using modern method. How is modern method of honey extraction advantageous than the indigenous method? 4+1=5

**UNIT—III**

7. Fill in the blank/Answer any *three* of the following : 1×3=3
- (a) Name two bacterial diseases of honey bee.
- (b) Who are enemies of honey bee?
- (c) Nosema disease is caused by a protozoan called \_\_\_\_\_.
- (d) Write the names of two viral diseases of honey bee.
8. Answer any *one* of the following : 2
- (a) What are the different types of broodfoul disease?
- (b) Mention the preventive measures used to keep away ants from bee colony.
9. Answer any *one* of the following : 5
- (a) State the symptoms and causative organisms of amoebic and acarine diseases.
- (b) Describe the process of management of various enemies of honey bee. 2½+2½=5

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**UNIT—IV**

10. Answer any *three* of the following :  $1 \times 3 = 3$
- (a) What is granulation of honey?
  - (b) Mention uses of bee wax.
  - (c) What is ghedda wax?
  - (d) What are propolis?
11. Answer any *one* of the following : 2
- (a) Enlist the products of apiculture industry.
  - (b) Write a short note on uses of honey.
12. Answer any *one* of the following : 5
- (a) Write the process of collection and uses of bee wax.
  - (b) What are the commercial uses of propolis? State the uses of apitoxin.  $3 + 2 = 5$

**UNIT—V**

13. Answer any *three* of the following :  $1 \times 3 = 3$
- (a) What is NBB?
  - (b) What is sweet revolution?
  - (c) When was honey mission launched?
  - (d) What do you understand by 'entomophily'?

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14. Answer any *one* of the following : 2
- (a) What are the objectives of National Beekeeping and Honey Mission?
  - (b) Why are bees important for cross-pollination?
15. Answer any *one* of the following : 5
- (a) Write a short note on role of KVIC in development of beekeeping programme in India.
  - (b) Describe modern methods of artificial beekeeping for cross-pollination in plants.

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