

(6 pages)

Reg. No. :

Code No. : 30515 E Sub. Code : CNZO 31

U.G. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2022.

Third Semester

Zoology — Non major Elective

BEE KEEPING

(For those who joined in July 2021 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer:

1. Amongst honey bees, the workers are
 - (a) Males
 - (b) Females
 - (c) Both male and female
 - (d) Hermaphrodite
2. *Apis dorsata* refers to
 - (a) Little bee
 - (b) Indian bee
 - (c) European bee
 - (d) Rock bee
3. Honey bee pollen baskets are found in
 - (a) Hind legs
 - (b) Forelegs
 - (c) Abdomen
 - (d) None of the above
4. Plants get benefited from bees through
 - (a) Seed dispersal
 - (b) Pollination
 - (c) Nutrient cycling
 - (d) All of the above
5. The natural method of colony multiplication in honeybee is
 - (a) Swarming
 - (b) Supersedure
 - (c) Abounding
 - (d) None of the above
6. This type of mouth parts is present in honey bee
 - (a) Siphoning
 - (b) Sponging
 - (c) Piercing
 - (d) Chewing and lapping

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7. The structure of honeycomb is
- Triagonal prismatic wax cell
 - Pentagonal prismatic wax cell
 - Octagonal prismatic wax cell
 - Hexagonal prismatic wax cell
8. Frameless beehive is called as
- Wane
 - Top bar
 - Langstroth
 - All of the above
9. The pH of honey is
- Acidic
 - Alkaline
 - Neutral
 - Turns basic after a few days
10. Bee wax consists of
- Fatty acid
 - Lactic acid
 - Oxalic acid
 - Formic acid

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PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Explain briefly about the functional role of Queen bee.
- Or
- (b) What are the difference between Rock bee and Indian bee?
12. (a) Write short note on honeybee's daily routine.
- Or
- (b) Explain about the nutritional characters of pollen and honey.
13. (a) How are the newly captured bee colonies maintained?
- Or
- (b) Give a brief account on supersedure.
14. (a) Explain the difference between primitive and modern beehives.
- Or
- (b) Write short note on waggle dance of honeybee.

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15. (a) What are the physical properties of honey?

Or

- (b) What is Royal jelly? And explain its role.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Elaborate the life history of *Apis indica*.

Or

- (b) Explain about the identification of queen, drones and workers in beehive and write about their role.

17. (a) Give a detail account of migratory bee keeping.

Or

- (b) Discuss about apiary positioning with respect to space and direction of sun to facilitate foraging of honeybees.

18. (a) Explain in detail about the construction and architecture of honeycomb.

Or

- (b) Give a detailed account on the honeybee diseases and control measures.

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19. (a) Define Newton bee hive and its architecture with neat diagram.

Or

- (b) What are the advantages and disadvantages of primitive and modern beehives?

20. (a) Give an elaborate account on different products of apiary along with their uses.

Or

- (b) Explain about the medicinal aspects of honeybee products.

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