

(6 pages)

Reg. No. : .....

Code No. : 20563 E Sub. Code : CNZO 31

U.G. (CBCS) DEGREE EXAMINATION, APRIL 2023

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. *Apis dorsata* also called as 'giant honeybee'
  - (a) small honeybee
  - (b) giant honeybee
  - (c) middle honeybee
  - (d) none of the above

6. The most common predators faced by honey bees are
  - (a) skunks
  - (b) bears
  - (c) hive beetles
  - (d) all the above
7. In \_\_\_\_\_, the bees build honey comb in the frames, which can be move easily.
  - (a) Langstroth hive
  - (b) Neuton hive
  - (c) Artificial hive
  - (d) All the above
8. Beekeepers use bee smoker to puff smoke into their hives, this smoke is \_\_\_\_\_
  - (a) harm to bees
  - (b) doesn't harm bees
  - (c) warm to bees
  - (d) all the above
9. Honey extraction is the process in beekeeping of removing honey from \_\_\_\_\_
  - (a) honey wings
  - (b) honey comb
  - (c) honey legs
  - (d) all the above
10. \_\_\_\_\_ is a product made from the honeycomb of the honeybee.
  - (a) Beeswax
  - (b) Bees waste
  - (c) Beeswax oils
  - (d) All the above

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2. The workers and queens have stingers, whereas the drones are
  - (a) sting
  - (b) stingless
  - (c) small sting
  - (d) all the above
3. Honey is formed from nectar collected by bees from the \_\_\_\_\_
  - (a) leaves
  - (b) stem
  - (c) flowers
  - (d) all the above
4. Beekeepers are also known as \_\_\_\_\_
  - (a) apiarists
  - (b) artists
  - (c) housekeeping
  - (d) none of the above
5. A honey comb is a mass of hexagonal prismatic wax cells built by honey bees in their nests contain their larvae and stores of \_\_\_\_\_
  - (a) honey and wax
  - (b) honey and pollen
  - (c) honey and waste
  - (d) all the above

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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) Write a short note on little bee.  
Or  
(b) How a bee becomes queen?
12. (a) Describe the relationship between bees and flowers.  
Or  
(b) Why is migratory beekeeping important?
13. (a) What care should be taken while purchasing honey bee colonies?  
Or  
(b) What are the most common diseases of bees?
14. (a) What are the requirements need to start a honey bee colony?  
Or  
(b) What are the parts of a modern bee hive?

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[P.T.O.]

15. (a) Describe the different methods of extracting honey.

Or

- (b) Write a detailed account on preservation of honey. How long can you preserve honey?

PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).  
Each answer should not exceed 600 words.

16. (a) Give a detailed account on life cycle of worker bee.

Or

- (b) What are the different role of bees in a beehive?

17. (a) Explain the manage beekeeping to get more honey.

Or

- (b) What are the factors to be considered to manage disease in an apiary?

18. (a) Describe the process of swarming. What are the factors which causes swarming in?

Or

- (b) How do you protect a bee colony from their enemies?

19. (a) Discuss about the equipments of apiary.

Or

- (b) How do you transfer bees from their hive?

20. (a) What are the chemical and physical properties of honey?

Or

- (b) Explain the importance of honey.