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Reg. No. : .....

Code No. : 30579 E      Sub. Code : CNZO 31

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

Third Semester

Zoology — Non Major Elective

BEE KEEPING

(For those who joined in July 2021–2022)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The average life span of worker bee is
  - (a) 2 weeks
  - (b) 2 months
  - (c) 4 months
  - (d) 6 months
2. This is a stingless bee which produces honey
  - (a) *Apis cincta* sp
  - (b) *Melipona bicolor*
  - (c) *Tetragona clavipes*
  - (d) All of the above
3. In natural condition, the location of brood chamber will be on
  - (a) top of the hive
  - (b) lower part of the hive
  - (c) middle of the hive
  - (d) all of the above
4. The routine work of queen bee is
  - (a) feeding the young ones
  - (b) protection of bee hive
  - (c) egg laying
  - (d) cleaning of hive
5. Honeybees frequently affected by this disease
  - (a) nosemosis
  - (b) polyhedrosis
  - (c) flacherie
  - (d) grasserie
6. The common enemies of honey bees are
  - (a) wasps
  - (b) hornets
  - (c) all of the above
  - (d) ants

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7. The appliance used to exclude queen bee from escaping is called

- (a) queen bee excluder (b) smoker  
(c) bee brush (d) fume board

8. The Langstroth bee hive is a ———— bee hive.

- (a) vertical (b) horizontal  
(c) mix of both (d) none of the above

9. The honeybees are of greatest use to mankind as

- (a) it is of medicinal benefits  
(b) helps in cross-pollination  
(c) we get honey from them  
(d) none of these

10. Honey produced by the honeybees are

- (a) nectar of a flower  
(b) nectar stored in the honey sac  
(c) nectar mixed with saliva and stored in the honey sac  
(d) nectar and water sucked by honey bee

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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 short note on duties of worker bees.

Or

(b) Distinguish between little bee from dammer bee.

12. (a) What are the dos and don'ts during the arrangement of apiary?

Or

(b) How bees manage to survive the adversity of different season?

13. (a) Give a brief account on swarming of honeybees.

Or

(b) Write short note on different compartments in honeycomb.

14. (a) What are the appliances used in apiary?

Or

(b) Draw and write the structure of modern hive.

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15. (a) What are the steps involved in collection and extraction of honey?

Or

- (b) Discuss about the storage and preservation of collected honey.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Differentiate worker and drone bees. Explain their salient features and their function.

Or

- (b) Write down the classification of dammer bees. Explain their uses.

17. (a) Explain in detail about different seasonal management of apiary.

Or

- (b) Describe about the foraging behaviour of honeybees.

18. (a) What is supersedure? Explain in detail about the process.

Or

- (b) Describe the common viral diseases of bee and its control measures.

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19. (a) Explain the difference between primitive and modern hives.

Or

- (b) Describe in detail about the transfer of honey bees from their hive.

20. (a) Discuss about the economic importance of honey and honeybee products.

Or

- (b) Give an account on the construction and management of apiary.

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