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Question Paper Code: U8A65

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2023

One Credit

Agriculture Engineering

21UAG865 – COMMERCIAL BEEKEEPING

(Regulations 2021)

Duration: 1.30 hours

Maximum: 50 Marks

Answer ALL Questions

PART A - (6 x 1 = 6 Marks)

1. Which organ has been modified in a worker bee into sting for defense purpose? CO1 -U
a) Ovipositor b) Wax gland c) Mandibular gland d) Mouth parts
2. Wax gland is present in..... CO1 -U
(a) Queen bee (b) Worker bee (c) Drone bee d) All the above
3. Shape of the Queen cell is..... CO1 - U
(a) Irregular shape (b) Hexagonal shape (c) Square shape (d) Both (a) and (b)
4. Which of the following bee species are domesticated? CO1 -U
(a) Indian bee (b) Little bee (c) Rock bee (d) All the above
5. Where is the wax glands situated in a worker bee? CO1 - U
(a) 4th – 8th abdominal segments (b) 4th – 5th abdominal segments
(c) 4th – 7th abdominal segments (d) 4th – 6th abdominal segments
6. Who got noble prize for work on dances of honey bees? CO1 - U
(a) Karl von Frisch (b) Langstroth (c) Marthandam (d) Newton

PART – B (6 x 2= 12 Marks)

7. Which are the wild honey bees and hive bees? How can you differentiate between the two types of bees on the basis of nesting site and comb structure? CO1 – U
8. Explain about the duties of worker bees. CO1 – U

9. How to identify the symptoms of Nosema disease? How can you control it? CO1 – U
10. What is the function of queen, drone and worker? CO1 – U
11. What are the symptoms of attack prevention and control of wax moth? CO1 – U
12. List out the different types of bees and their scientific name with family? CO1 – U

PART – C (2 x 16= 32 Marks)

13. (a) Analysis the problems faced by the beekeepers during start small apiary unit CO1 – U (16)
- Or
- (b) Explain the different caste of honey bees and how the bees are split their duties. CO1 – U (16)
14. (a) Calculate the benefit cost ratio analysis of 100 bee hives apiary CO2 -App (16)
- Or
- (b) Calculate the benefit cost ratio analysis of 50 bee hives apiary CO2 -App (16)

