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Question Paper Code: R8A65

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2025

One Credit Course

Agricultural Engineering

R21UAG865 – COMMERCIAL BEE KEEPING

(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. Which types of mouth parts are present in worker bees? CO1 – U
a) Biting and chewing b) Piercing and sucking
c) Chewing lapping d) Chewing sucking
4. 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 abdomeninal segments
5. Which of the following bee species are domesticated? CO1 – U
(a) Indian bee (b) Little bee (c) Rock bee (d) All the above
6. Shape of the Queen cell is..... CO1 – U
(a) Irregular shape (b) Hexagonal shape (c) Square shape (d) Both (a) and (b)

PART – B (6 x 2= 12 Marks)

7. Give details about selection of good apiary site. CO1-U

8. What is swarming? How to prevent and control swarming? CO1-U
9. Differentiate the types of bees on the basis of nesting site and comb structure? CO1-U
10. List out the different types of bees with their scientific name and family? CO1-U
11. Explain about the duties of Queen bee. CO1-U
12. Explain the role of honey bees in cross pollination CO1-U

PART – C (2 x 16= 32 Marks)

13. (a) Give detail about brood and adult diseases of honey bees and their management. CO1 – U (16)

Or

- (b) Give detail about handling of bee colonies and draw periodical colony inspection record table and enumerate the bee enemies and their control. CO1 – U (16)

14. (a) Differentiate the morphological and internal differences of three castes of honey bees? CO1 – U (16)

Or

- (b) Explain the different caste of honey bees and how the bees are split their duties. CO1 – U (16)