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Question Paper Code: U8A65

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2024

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. Who got noble prize for work on dances of honey bees? CO1 -U
(a) Karl von Frisch (b) Langstroth (c) Marthandam (d) Newton
3. Which of the following bee species are domesticated? CO1 - U
(a) Indian bee (b) Little bee (c) Rock bee (d) All the above
4.is worn over face for protection against stings CO1 -U
(a) Bee veil (b) Gloves (c) High boots (d) None of 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. Wax gland is present in..... CO1 - U
(a) Queen bee (b) Worker bee (c) Drone bee (d) All the above

PART – B (6 x 2= 12Marks)

7. How to identify the symptoms of Nosema disease? How can you control it? CO1 – U
8. What is the function of queen,drone and worker? CO1 – U
9. Compare any five morphological differences in queen,drone and worker bees? CO1 – U

10. 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
11. List out the different types of bees and their scientific name with family? CO1 – U
12. Give details about selection of good apiary site. CO1 – U

PART – C (2 x 16= 32Marks)

13. (a) List out the Bee keeping appliances and explain any five of them. CO1 – U (16)

Or

- (b) Identification of honey bee species and their habit and charecteristics. CO1 – U (16)

14. (a) Give detail about handling of bee colonies and draw periodial colony inspection record table and enumerate the bee enemies and their control. CO2 -App (16)

Or

- (b) Differentiate the morphological and internal differences of three castes of honey bees? CO2 -App (16)

