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**Question Paper Code: U8A65S**

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. Wax gland is present in \_\_\_\_\_ CO1-U  
(a) Queen bee            (b) Worker bee            (c) Drone bee            (d) All the above
2. 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
3. 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
4. Shape of the Queen cell is \_\_\_\_\_ CO1-U  
(a) Irregular shape    (b) Hexagonal shape    (c) Square shape    (d) Both (a) and (b)
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. \_\_\_\_\_ is worn over face for protection against stings CO1-U  
(a) Bee veil            (b) Gloves            (c) High boots            (d) None of the above

PART – B (6 x 2= 12 Marks)

7. Explain about the duties of worker bees. CO1-U
8. List out the different types of bees and their scientific name with family? CO1-U
9. Give details about selection of good apiary site. CO1-U
10. What is swarming? How to prevent and control swarming? CO1-U

11. 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
12. What are the symptoms of attack prevention and control of wax moth? CO1-U

PART – C (2 x 16= 32Marks)

13. (a) Explain different castes of honey bees and their characters. CO1-U (16)
- Or
- (b) Differentiate the morphological and internal differences of three castes of honey bees? 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)