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Question Paper Code: R8A65

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

One Credit

Agricultural Engineering

R21UAG865 – COMMERCIAL BEEKEEPING

(Regulations 2021)

Duration: 1.30 hours

Maximum: 50 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

-is worn over face for protection against stings CO1-U
(a) Bee veil (b) Gloves (c) High boots (d) None of the above
- Wax gland is present in..... CO1 -U
(a) Queen bee (b) Worker bee (c) Queen bee (d) Worker bee
- Which of the following bee species are domesticated? CO1 -U
(a) Indian bee (b) Little bee (c) Rock bee (d) All the above
- Amongst honey bee, the workers are CO1 -U
(a) Female (b) Male (c) Both females and males (d) Hermaphrodites
- Nature of honey is CO1 -U
(a) Acidic (b) Alkaline (c) Neutral (d) Turn basic after a few days
- 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
- Who got noble prize for work on dances of honey bees? CO1 -U
(a) Karl von Frisch (b) Langstroth (c) Marthandam (d) Newton
- Shape of the Queen cell is..... CO1 -U
(a) Irregular shape (b) Hexagonal shape (c) Square shape (d) Both (a) and (b)

9. 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
10. 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

PART – B (2 x 20 = 40Marks)

11. (a) Give detail about brood and adult diseases of honey bees and their management CO1 -U (20)
- Or
- (b) Differentiate the morphological and internal differences of three castes of honey bees? CO1 -U (20)
12. (a) Differentiate the morphological and internal differences of three castes of honey bees? CO2 -App (20)
- Or
- (b) Calculate the benefit cost ratio analysis of 50 bee hives apiary CO2 -App (20)