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(Contd.)

B.Sc. Part-II (Semester-III) Examination APICULTURE

(Entomology and Bee Pathology)

| Tim | c : T | hree | Hours] [Maximum Marks | : 80 | | | |
|-----|--|---|---|------|--|--|--|
| No | te :- | — A | LL questions are compulsory and Question Nos. 2 to 7 carry equal marks. | | | | |
| 1. | in the blanks : | | | | | | |
| | (a) Ascosphaera apis is a disease that attacks the gut of the larva. | | | | | | |
| | | (b) | b) Apis florea belongs to order | | | | |
| | | (c) | Wax glands are located on in honey bee. | | | | |
| | | (d) | zard is of honcy bee. | | | | |
| | (B) | Cho | oose correct option : | | | | |
| | | (a) | a) Multiple parallel combs are build by : | | | | |
| | | | (i) Apis cerana (ii) Apis dorsata | | | | |
| | | | (iii) Apis florea (iv) Trigona | | | | |
| | | (b) The stinz apparatus in honey bee is modified: | | | | | |
| | | | (i) Oviduct (ii) Ovipositor | | | | |
| | | | (iii) Ovary (iv) Ovisector | | | | |
| | | (c) | In honcy bee 'bee dance' is a means of: | 1/2 | | | |
| | | | (i) Locomotion (ii) Recreation | | | | |
| | | | (iii) Communication (iv) Relation | | | | |
| | | (d) | 90% population in bee hive is of caste : | | | | |
| | | | (i) Queen (ii) Drone | | | | |
| | | | (iii) Worker (iv) Larvae | | | | |
| | (C) Answer in ONE sentence each : | | | | | | |
| | | (a) | What is the function of drone bee ? | | | | |
| | | (b) | Name two predators of honey bee. | | | | |
| | | (c) How do the honey bees communicate ? | | | | | |
| | | (d) | What is the food of honey bee ? | 1 | | | |
| 2. | Des | cribe | beneficial insects to man and describe bees' relation to human culture. | 12 | | | |
| OR | | | | | | | |
| | Give classification of honey bee in detail and explain solitary and social bees with | | | | | | |
| | example. | | | | | | |

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|-----|--------------------------|-----------------------------------|---------------------------|---------------------|--|--|
| | (a) | Genera of bees. | | 4 | | |
| 4. | (b) | Identification of Apis dorsata. | | 4 | | |
| | (c) | Queen bee of Apis indica. | | 4 | | |
| | | | OR | | | |
| | (d) | Division of labour in bee hive. | | 4 | | |
| | (e) | General organization of Trigona. | | 4 | | |
| | (f) | Identification of Apis mellifera. | | 4 | | |
| | Describe the following: | | | | | |
| | (g) | Antennae of honey bee. | | 4 | | |
| | (h) | Metamorphosis of queen bee. | | 4 | | |
| | (i) | Respiratory system of honey bee. | | 4 | | |
| | | | OR | | | |
| | (j) | Eyes of honey bec. | | 4 | | |
| | (k) | Circulatory system of honey bee, | | 4 | | |
| | (l) | Digestive system of honey bec. | | 4 | | |
| 5. | Des | cribe significance of temperature | and humidity in bee hive. | 12 | | |
| | | | OR | | | |
| 6. | Des | cribe communication behavioral re | elation in honey bees and | bee dance. 12 | | |
| | Explain the following: | | | | | |
| | (m) | Effect of poisonous pollen and n | ector on bee. | 4 | | |
| | (n) | American foul brood disease of | noney bees. | 4 | | |
| | (0) | Ectoparasites in honey bee, | | 4 | | |
| | | | OR | | | |
| | (p) | Viral infection of honey bee. | | 4 | | |
| | (q) | Lethal effects of chemicals on he | oney bees. | 4 | | |
| 131 | (r) | Classification of bee diseases. | | F-1 4 | | |
| | Describe the following : | | | | | |
| | (s) | Birds as enemies of honey bee. | | 4 | | |
| | (t) | Control of wasp in Apiary. | | 4 | | |
| | (11) | Insect predators in Apiary (any t | wo). | 4 | | |
| | | | OR | | | |
| | (v) | Lizard as enemies of Apiary. | | 4 | | |
| | (w) | Methods of queen bee breeding. | | 3 4 | | |
| | (x) | Control of bee mites in Apiary. | | 4 | | |
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