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B.Sc. Part—I (Semester—I) Examination

APICULTURE

(Fundamentals of Bee Keeping)

Time : Three Hours] [Maximum Marks : 80

Note :— (1) **ALL** questions are compulsory.

(2) Question No.s **2** to **7** carry equal marks.

1. (A) Fill in the blanks :— 2

(i) Apiculture is also called as _____.

(ii) The honey bee basically collects _____ and _____.

(iii) Apis dorsata is popularly known as _____.

(iv) Name of dance performed by the bees _____.

(B) Choose correct alternative :— 2

(v) What does Pollen consist of mainly ?

(a) Carbohydrate (b) Proteins

(c) Fat (d) None of these

(vi) What is Varroa ?

(a) a fungus (b) a bacterium

(c) an insect (d) an arachnid mite

(vii) Among honey bees, workers are _____.

(a) Male (b) Female

(c) Male & Female both (d) None of these

(viii) Apis dorsata refers to _____.

(a) Rock bee (b) Little bee

(c) Indian bee (d) European bee

(C) Answer in one sentence :— 4

(ix) What is Apiculture ?

(x) What is Bee Yard or An Apiary ?

(xi) What is Drone ?

(xii) How the honey bees communicate ?

2. Describe the following :— 12

(a) Identifying features of Apisdorsata.

(b) Diversity of Bee Plants.

(c) Varieties of Bee Products.

OR

(d) Races of Honey Bees.

(e) Identifying features of Apis Mellifera.

(f) Modern hive and Queen Excluder.

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3. Describe migration routes for Bee Colonies in Vidarbha. 12

OR

Describe the conditions that increase yield per hive.

4. Explain the following :— 12

(g) Types of hives

(h) Comb foundation sheet

(i) Bee keeping Tools.

OR

(j) Draw a well labelled diagram of Langstroth's hive.

(k) Honey extractors.

(l) Bee hive equipments–Pollen trap and Queen Excluder.

5. Attempt the following :— 12

(m) Queen function in a colony

(n) Hive Sanitation

(o) Drone Breeding

OR

(p) Types of Queen cell.

(q) Cleaning and disinfecting wooden hives.

(r) Worker Brood development.

6. Explain the following :— 12

(s) Selection of flora

(t) Suitable location for Beekeeping

(u) Foraging Range of Bees.

OR

(v) Choice of site of Apiary.

(w) Knowledge of bee plants and duration of flowering

(x) Topography.

7. Describe the criteria to determine strength of colony. 12

OR

Describe the needs to maintain colony record.

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