

**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 Nos 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 &amp; 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 :—

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(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 *Apis dorsata*.

(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.



3. Describe migration routes for Bee Colonies in Vidarbha.

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.