

B.Sc. Part—III Semester—VI Examination

APICULTURE

(Management, Marketing and Extension)

Time : Three Hours]

[Maximum Marks : 80

Note :—All questions are compulsory and questions 2 to 7 carry equal marks.

1. (A) Fill in the blanks :—

- (a) Anemometer is used to measure _____ . ½
 (b) Laying worker lays _____ . ½
 (c) Feeding of _____ solution is provided to bees. ½
 (d) Mixing of two colonies is called _____ . ½

(B) Choose correct options :—

- (e) Transfer of bee colonies for pollination or honey production is called _____ . ½
 (i) Swarming (ii) Migration (iii) Rearing
 (f) Queen cell will be formed at _____ of comb. ½
 (i) Upper part (ii) Bottom (iii) Middle Part
 (g) State agency working in field of extension of bee keeping is : ½
 (i) KVIB (ii) KVIC (iii) DIC.
 (h) Capturing of bee colonies from nature in hive is _____ . ½
 (i) Acquisition (ii) Swarming (iii) Migration

(C) Answer in **ONE** sentence each :—

- (j) What is feeding ? 1
 (k) What is swarming ? 1
 (l) Define queen rearing. 1
 (m) What is foraging ? 1

2. (a) Explain basic requirement for establishment of apiary. 4
(b) Explain hiving of natural colony in brief. 4
(c) Explain recognizing characters of queen bee. 4

OR

- (d) How honey can be collected hygienically from colonies ? 4
(e) Describe optimum climatic conditions required for bee keeping. 4
(f) Describe egg laying behaviour of queen bee. 4
3. (g) Explain packing of colonies for transportation. 4
(h) Describe the advantages of meteorological equipments in bee keeping. 4
(i) Explain concept of pollination services. 4

OR

- (j) Explain need of seasonal management in bee keeping. 4
(k) Explain any two insect pollinators. 4
(l) Explain significance of comb honey. 4
4. (m) Describe need of artificial queen rearing. 4
(n) Explain advantages of uniting of colonies. 4
(o) Describe prevention method for Swarming. 4

OR

- (p) Describe disertation. 4
(q) Explain routine activities of bees. 4
(r) Describe significance of queen cell. 4
5. (s) Explain quality criteria for honey. 4
(t) Give account of marketing of honey in Indian market. 4
(u) Describe barriers in export of honey. 4

OR

- (v) Explain concept of purity standards of honey. 4
- (w) How honey will be promoted in Indian market by different manufacturers ? 4
- (x) Explain problems in marketing of honey. 4
6. Discuss outline and layout of honey house. 12

OR

Discuss the measures to protect bee colonies from spraying and give standards for bee hive. 12

7. Discuss principles of extension of bee keeping and explain bee keeping as agroindustry. 12

OR

Discuss structure of Khadi and Village Industries Commission and explain its role in extension of bee keeping. 12

