

**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) Procedure of getting better off spring is \_\_\_\_\_.  $\frac{1}{2}$
- (b) Rainfall is recorded by an equipment called \_\_\_\_\_.  $\frac{1}{2}$
- (c) Mixing of two colonies is called \_\_\_\_\_.  $\frac{1}{2}$
- (d) Pheromone of queen bee is \_\_\_\_\_.  $\frac{1}{2}$

(B) Choose the correct options :

- (e) Part of colony leaving hive is :  $\frac{1}{2}$ 
  - (i) swarming                      (ii) uniting                      (iii) migration
- (f) When worker starts egg laying is :  $\frac{1}{2}$ 
  - (i) laying worker              (ii) foraging worker              (iii) swarming worker
- (g) Humidity can be recorded by this equipment :  $\frac{1}{2}$ 
  - (i) psychrometer              (ii) hygrometer                      (iii) thermometer
- (h) Migration of colony for :  $\frac{1}{2}$ 
  - (i) food                              (ii) pollination                      (iii) all of these

(C) Answer in **one** sentence each :

- (i) What is apiary ? 1
- (j) What is rearing of queen ? 1
- (k) What is anemometer ? 1
- (l) Define comb honey. 1

- 2. (a) Describe minimum need for establishment of new apiary. 4
- (b) Explain periodic inspection of bee colonies. 4
- (c) Describe identifying characters for queen bee among colony. 4

**OR**

- (d) Describe most suitable apiary site considerations. 4
- (e) Explain optimum climatic conditions for apiary. 4
- (f) Explain brood and food with reference to strong colony. 4

- (g) Describe seasonal management of bee colony. 4
- (h) Explain use of meteorological equipment in apiary. 4
- (i) Describe causes of laying worker. 4

OR

- (j) Explain need of migratory beekeeping. 4
- (k) Describe winter management practice in beekeeping. 4
- (l) Explain control measures for laying workers. 4
4. Discuss meaning, causes and control of swarming. 12

OR

Discuss need of uniting of colonies and give account of routine activities of bees in colony. 12

5. (m) Explain scope of marketing of honey in Indian market. 4
- (n) Explain any four purity standards of honey. 4
- (o) Describe limitation in export of honey. 4

OR

- (p) Explain concept of quality control of honey. 4
- (q) Describe market of honey in India. 4
- (r) Explain need of bleaching of bees wax. 4
6. Discuss honey house and give plan of processing plant. 12

OR

Give standard for (ISI) hive, for *A. cerena* and *mellifera* bees. 12

7. (s) Explain role of Khadi and Village Industry Commission in honey beekeeping. 4
- (t) How we can give extension of beekeeping in rural areas ? 4
- (u) How beekeeping is suitable in rural area ? 4

OR

- (v) Explain beekeeping as Agro Industry. 4
- (w) Describe beekeeping in Western Countries. 4
- (x) Explain agencies working in field of beekeeping. 4