

AR - 497

First Semester B. Sc. (Part - I) Examination

**APICULTURE**

(Fundamentals of Bee Keeping)

P. Pages : 6

Time : Three Hours ]

[ Max. Marks : 80

---

**Note** : All questions are compulsory and question **two** to **seven** carry equal marks.

1. (A) Fill in the blanks :—

(a) The flowering plant providing pollen and nectar, to bee, plant is called \_\_\_\_\_

$\frac{1}{2}$

(b) The bee colony composed of worker bees, drones and a \_\_\_\_\_

$\frac{1}{2}$

(c) A cerena, ISI hive contains \_\_\_\_\_ numbers of frame.

$\frac{1}{2}$

(d) \_\_\_\_\_ is the food of honey bees.

$\frac{1}{2}$

(B) Choose correct option :

(e) The bees nests on tall trees and buildings.

(i) A florea

AR-497

P.T.O.

- (ii) A dorsata
- (iii) trigona  $\frac{1}{2}$
- (f) For the protection eyes / head from the bees – is used.
  - (i) bee veil
  - (ii) hand gloves
  - (iii) shoes  $\frac{1}{2}$
- (g) Which is not a bee product.
  - (i) honey
  - (ii) nectar
  - (iii) wax  $\frac{1}{2}$
- (h) The honey bees produces honey from
  - (i) nectar
  - (ii) pollen
  - (iii) water  $\frac{1}{2}$
- (C) Answer in **one** sentence each.
  - (i) What is the function of queen bee? 1
  - (j) What is Apiary? 1
  - (k) Which are the species of honey bees found in India? 1

(l) Which is the largest bee in a bee colony?

1

2. (a) What is bee keeping? Give the names of casts in bee colony. 4
- (b) Which are the bee products? Explain uses of any two products. 4
- (c) What is the difference between *A-dorsata* and *A-cerena* morphology? 4

**OR**

- (d) Explain any four bee plants with their flowering season. 4
- (e) Give any four identifying characters of florea bees. 4
- (f) What is the use of smoker and hive tool. 4
3. What is migration? Explain the need of migration of bee colonies and give advantages of migration. Give brief information on pre-preparedness for migration.

**OR**

What is bee flora? Explain various plants that provides nectar and pollen to bees of your area.

12

4. With the help of diagram explain ISI type-A bee hive along with its parts.

**OR**

Explain advantages of smoker, bee veil, handgloves.

What is comb foundation sheet?

12

5. (a) Give any four identifying characters of queen bee of *A-cerena*. 4
- (b) Explain laying worker. 4
- (c) What is uniting of colony? Explain need of uniting. 4

**OR**

- (d) Explain structure of comb with reference to position of brood food and honey. 4

- (e) Explain characters of queen cell. 4
- (f) Explain duties of workers in the colony. 4
6. (a) How will you select the site for apiary ? 4
- (b) Explain foraging range of bees. 4
- (c) Describe climatic conditions with reference to setting of apiary. 4

**OR**

- (d) Describe topographic conditions required for apiary site. 4
- (e) Explain bee flora with reference to apiary site. 4
- (f) Explain apiary give its significance. 4
7. (a) Give the advantages of colony record. 4
- (b) Describe the method for to maintain colony record. 4
- (c) Explain the term 'Strength of Colony.' 4

OR

- (d) How will you count pollen income and give advantage of pollen income counting. 4
- (e) Explain the different heads of colony inspection record. 4
- (f) How will you decide the brood, food and honey flow during colony inspection. 4

