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Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (Agriculture) (2014 &amp; Onwards) (Sem.-7)

**APICULTURE**

Subject Code : BSAG-PP-701

M.Code : 74863

Time : 3 Hrs.

Max. Marks : 30

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying ONE mark each.
2. SECTION-B contains FIVE questions carrying 2½ (Two and Half) marks each and students has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying FIVE marks each and students have to attempt any TWO questions.

**SECTION-A****1. Write briefly :**

- a) Importance and concept of migratory beekeeping.
- b) Symptoms of laying worker colonies.
- c) Symptoms of bee parasitic mite attack.
- d) Castes of honey bees in *Apis mellifera*.
- e) Scope for diversification in apiculture.
- f) Dearth period sugar feeding to honey bee colonies.
- g) Prevention of robbing in apiary.
- h) Historical development of beekeeping in the Punjab.
- i) Bee flora during winter and spring seasons in the Punjab.
- j) Composition of honey.





**SECTION-B**

2. Symptoms and management of European foulbrood disease.
3. How can you protect honey bee colonies from pesticidal poisoning?
4. Describe managed crop pollination using *Apis mellifera*.
5. Describe digestive system of worker bee.
6. What are the causes of swarming in honey bee colonies and how will you manage this problem?

**SECTION-C**

7. Describe mass queen bee rearing using Doolittle method.
8. Describe management of *Apis mellifera* colony for maximizing honey production.
9. Elaborate nature of damage and management of wax moths in honey bee colonies.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**

