

**Total No. of Pages : 02**

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

**Subject Code : BSAG-PP-701**

**Max. Marks : 30**

1. **SECTION-A is COMPULSORY** consisting of **TEN** questions carrying **ONE** mark each.
2. **SECTION-B** contains **FIVE** questions carrying **2<sup>1</sup>/<sub>2</sub>** (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.

**1. Write briefly :**

- Importance and concept of migratory beekeeping.
- Symptoms of laying worker colonies.
- Symptoms of bee parasitic mite attack.
- Castes of honey bees in *Apis mellifera*.
- Scope for diversification in apiculture.
- Dearth period sugar feeding to honey bee colonies.
- Prevention of robbing in apiary.
- Historical development of beekeeping in the Punjab.
- Bee flora during winter and spring seasons in the Punjab.
- 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.**