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Total No. of Pages : 02

Total No. of Questions : 09

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

**BIOCONTROL AND INTEGRATED PEST MANAGEMENT**

Subject Code : BSAG-PP702

Paper ID : [74864]

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. **SECTION-A** is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

**SECTION-A****Q.1. Write down the name of causal organism and mode of perpetuation of the following**

(a) Transgenic plants in pest management

(b) Why are insecticides formulated?

(c) Cinerin 1 and 2

(d) Insect Biotype development

(e) JHA's

(f) Cotton Mealy bug management

(g) Multiple parasitism

(h) Larval pupal parasitoids

(i) HPR in pest management

(j) Eil

### SCCTION-B

- Q.2. Describe the era of IPM as distinguished from other eras in the development of pest management.
- Q. 3. (a) What is ecological engineering?
- (b) Role of trap crops in IPM.
- Q.4. What are the problems associated with the EPN's?
- Q.5. Explain the role of egg parasitoids in the management of cotton bollworms.
- Q.6. How can gene pyramiding help in pest management programs?

### SECTION-C

- Q.7. Write in detail the role of juvenile hormone analogues (JHAs) in pest management.
- Q.8. Give in detail the mass production procedure for *Trichogramma* spp.
- Q.9. What are the constraints in successful development of classical biological control?