

Roll No.		Total No. of Pages : (	12
		rotar itor or ragoo r	_

Total No. of Questions: 09

# B.Sc. Agriculture (2014 & Onwards) (Sem.-4) INSECT ECOLOGY AND INTEGRATED PEST MANAGEMENT

Subject Code: BSAG-404 Paper ID: [72756]

Time: 3 Hrs. Max. Marks: 60

#### **INSTRUCTION TO CANDIDATES:**

- 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**

## Q1. Write short notes on:

- a) Insecticide Act 1968.
- b) Classification of pest based on level of infestation.
- c) Control measures against rodent pests.
- d) Physical control of insect pest.
- e) Economic threshold level.
- f) Hibernation and Aestivation.
- g) Fumigants.
- h) Insect growth regulators.
- i) Chemosterilants.
- i) Pest forecasting.

1 | M 72756 (S2)-2114



### **SECTION-B**

- Q2. Define host plant resistance to insects, Its major characteristics and give 2 historical examples of use of HPR in pest management.
- Q3. Define pest and briefly describe categories of pest based on their occurrence in field along with suitable examples.
- Q4. Define IPM. What is biological control and constraints in integration of biological control in IPM programmes?
- Q5. What is environmental resistance and discuss its types?
- Q6. Classify the pesticide formulations. Enumerate the salient features of liquid formulations. What is drift?

## **SECTION-C**

- Q7. What is pest outbreak and discuss in detail causes of pest outbreak in agroecosystem.
- Q8. What is pest surveillance, its types, components of pest surveillance and its advantages?
- Q9. Write the short notes of the following insecticides:
  - a) Neonicotinoids
  - b) Organochlorines
  - c) Synthetic pyrethroids
  - d) Carbamates
  - e) Botanicals

**2** | M 7 2 7 5 6 (S 2) - 2 1 1 4