

Total No. of Questions: 09

B.Sc. Agriculture (2014 to 2018) (Sem.-4)

# **INSECT ECOLOGY AND INTEGRATED PEST MANAGEMENT**

Subject Code: BSAG-404 M.Code: 72756

Time: 3 Hrs. Max. Marks: 60

## **INSTRUCTION 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**

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#### 1. Write short notes on:

- a) Life table
- b) Legislative control
- c) Control measures against rodent pests
- d) Trap crops
- e) Insect growth regulators
- f) Antifeedants
- g) Chemostrilants
- h) Hibernation and Aestivation
- i) Predators and parasitoids
- i) Pest surveillance

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## **SECTION-B**

- Define Host Plant resistance to insect, its major characteristics and use of HPR in pest 2. management.
- 3. What is environmental resistance and discuss its types?
- 4. What are fumigants? Classify them into groups and quality of ideal fumigants?
- 5. Define Ecology and its importance in pest management.
- 6. What is biological control and discuss briefly major techniques of biological control?

## **SECTION-C**

- 7. What is pest outbreak and discuss in detail the causes of pest outbreak in agro-eco system?
- 8. What is IPM, outline its different components? What are the major constraints in IPM implementation? Outline the strategies for effective implementation of IPM?
- b) Light activated pesticides
  c) Microbial control 9.

  - d) Insect resurgence
  - e) Organophosphates

NOTE: Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC case against the Student.

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