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B.Sc. Agriculture (2014 & Onwards) (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

- 1. Write short notes on :**

- a) Life table
- b) Legislative control
- c) Control measures against rodent pests
- d) Trap crops
- e) Economic Threshold Level
- f) Diapause
- g) Bioassay
- h) Insect growth regulators
- i) Xenobiotics
- j) Insect resurgence

SECTION-B

2. Define host plant resistance (HPR) to insects? Briefly explain Mechanisms and bases of HPR.
3. Define Pest and briefly describe categories of pest based on their occurrence in field along with suitable examples.
4. What is biological control and write briefly about major techniques of biological control.
5. What is biotic potential and its components?
6. Classify the pesticide formulations. Enumerate the salient features of liquid formulations. What is drift?

SECTION-C

7. What is pest outbreak and Discuss in detail causes of pest outbreak in agroecosystem?
8. What is IPM? Outline its different components. What are the major constraints in IPM implementation? Outline the strategic for effective implementation of IPM.
9. Write the short notes of the following insecticides :
 - a) Neonicotinoids
 - b) Nereistoxin derivatives
 - c) Agroecosystem
 - d) Organophosphates
 - e) Botanicals

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.