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RLSE-113

Ph. D. IN LIFE SCIENCES (PHDLS)

Term-End Examination

December, 2024

RLSE-113 : INSECT-PEST MANAGEMENT

Time : 3 Hours

Maximum Marks : 100

Note : Answer any *five* questions. All questions carry equal marks.

1. Describe any *two* stored grain pests and medically important pests each and discuss the damage caused by each *one* of them. 20
2. Explain major strategies and tactics employed in IPM with suitable examples. 20
3. (a) What is pesticide resistance ? Discuss the methods to manage pesticide resistance. 10
(b) Explain about conservation and augmentation of natural enemies in biological control. 10

4. Write short notes on the following : $4 \times 5 = 20$
- (i) Pest risk analysis
 - (ii) Use of remote sensing in pest management
 - (iii) Farmer field schools
 - (iv) Non-insect-pests
5. Discuss in detail the social, economic and environmental constraints of IPM strategies and tactics with suitable examples. 20
6. (a) Discuss the role of women in IPM. 10
- (b) Explain the role of cytoplasmic incompatibility and Sterile Insect Release Method (SIRM) in IPM. 10
7. (a) Describe the quantitative basis of pest management with reference to population estimates. 10
- (b) Which legislative measures are enforced in India to prevent the introduction of foreign pests ? 10

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