

**Ph.D. IN LIFE SCIENCES
(PHDLS)**

**Term-End Examination
December, 2018**

00292

RLSE-113 : INSECT PEST MANAGEMENT

Time : 3 hours

Maximum Marks : 100

Note : Attempt any five questions. All questions carry equal marks.

1. Describe any two pests of cotton and sugarcane each and discuss the damage caused by each one of them. 20

2. (a) Explain the role of GEP, EIL and ET in pest management. 10
(b) Discuss the role of pest forecasting and remote sensing in IPM. 10

3. (a) Explain the different levels of IPM with suitable diagrams. 10
(b) Discuss the role of NGOs in IPM. 10

4. Why is adoption of IPM poor among farmers and general public ? Which IPM strategies should be adopted in future to adopt it ? 20
5. Write short notes on the following : 4×5=20
- (a) Use of Pest Models in IPM
 - (b) Antifeedants
 - (c) Insect Growth Regulators
 - (d) Plant Health Clinics
6. Explain the role of physical and mechanical control in IPM with suitable examples. 20
7. (a) What are biopesticides ? Explain various microbial and botanical pesticides being used in IPM at present. 12
- (b) How can biological control be integrated with chemical control methods for effective implementation of IPM ? 8
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