

1525

4

6. Write short notes on **any three** of the following :

(a) Hybrid sterility

(b) Quarantine laws

(c) Pest population dynamics

(d) Azadirachtin (AZ) (3×5=15)

(500)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 1525

I

Unique Paper Code : 2233580005

Name of the Paper : DSE Integrated Pest
Management

Name of the Course : **B.Sc. (P) Applied life science
with Agrochemical and Pest
Management**

Semester : V – NEP-UGCF

Duration : 2 Hours

Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt **Four** questions in all including.
3. Question No. **1** which is compulsory.

P.T.O.

1525

2

1. (a) Define the following :

- (i) Key pest
- (ii) Parasitism
- (iii) Herbicide
- (iv) Economic threshold level (ETL) (1×4=4)

(b) Differentiate between the following :

- (i) LC_{50} and LD_{50}
- (ii) Antifeedants and repellents
- (iii) Pheromones and Kairomones
- (iv) Predator and Parasitoid (2×4=8)

(c) Expand the following abbreviations (any three) :

- (i) ETL
- (ii) *Bt*
- (iii) IGRs
- (iv) FOA (1×3=3)

1525

3

2. Write principle and components of Integrated Pest Management (IPM). Discuss any one successful case study of IPM programmes. (15)

3. (a) What is biological control? Justify how biological control is more sustainable and safer alternative than chemical control. (8)

(b) Give a broad line classification of insecticides based on their mode of action. (7)

4. (a) Name any one insecticide of plant origin. Discuss its chemical properties and effect on insects pest. (8)

(b) Discuss Sterile Insect Technique (SIT) with example. (7)

5. (a) What is pest? Discuss various methods and devices used in pest monitoring. (8)

(b) Give an account of physical control method of insect population. (7)

P.T.O.