

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 7474

K

Unique Paper Code : 2233580026

Name of the Paper : DSE - Locust and their Management

Name of the Course : **B.SC. (P) APPLIED LIFE SCIENCE WITH
AGROCHEMICALS AND PEST
MANAGEMENT**

Semester : VIII (NEP-UGCF)

Duration : 3 Hours

Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt 4 questions in all.
3. Question No. 1 is compulsory.
4. Answer should be written either in English or Hindi but the same medium should be used throughout the paper.

1. (a) Define the following

4

- i. Locust
- ii. Instar
- iii. Predator
- iv. Transiens

(b) Differentiate between the following

6

- i. Locust plague period and Locust recession period

- ii. Locust behavior in uniform low vegetation cover and in non-uniform vegetation cover of mixed plants
- iii. Biological control and Mechanical control
- (c) Expands the following abbreviations: 5
 - i. LWO
 - ii. SALO
 - iii. CALO FAO
 - iv. IRLCO-CSA
- 2.a) Describe morphometric characters of different phases of locust. 6
- (b) Discuss morphological features of different nymphal instars of a locust with the help of diagram. 9
- 3. (a) Describe control and management strategies for locust. 10
- (b) What was the impact on Indian agriculture and economy by 2020 locust attack? 5
- 4.(a) Describe life cycle of *Schistocerca gregaria* with the help of a suitable diagram and damage caused by it? 9
- (b) What is the impact of locust on the health of fauna and humans? 6
- 5. Write short notes on any THREE of the following. 5+5+5
 - (i) Socio-economic importance of locust.
 - (ii) Sexual dimorphism in locust.
 - (iii) Polyphenism.
 - (iv) Hopper behavior.