

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Voc. (Agriculture) (Sem.-5)

INSECT PESTS OF CROPS AND STORED GRAINS

Subject Code : BVAG-506-18

M.Code : 93126

Date of Examination : 23-12-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS 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.
 - a. Enlist various pests attacking chilli. How will you differentiate between damage symptoms due to yellow mite and thrips in chilli?
 - b. What are damage symptoms of citrus psylla on citrus? Give its one chemical control.
 - c. Which are the major stored pests of wheat Punjab? Give management of lesser grain borer.
 - d. Brief about life cycle of *Helicoverpa armigera* in cotton. Give its host range.
 - e. What is life cycle of cucurbit fruitfly? Give its management in bittergourd and ridge gourd by PAU, Ludhiana.
 - f. What is ETL for rice planthoppers in rice and basmati? Give its chemical management.
 - g. What is mode of action of Bt in *Helicoverpa armigera*? Give typical symptoms produced by insect after consuming Bt plants.
 - h. An individual insect can cause 100 % crop failure than in being large counts. Comment on the statement.
 - i. What is peak activity period of sugarcane early shoot borer? Give its damage symptoms and one chemical control.

- j. Give mustard aphid and sawfly damage symptoms on oilseed crops. Give one control for mustard aphid.

SECTION-B

2. List various pests of sunflower. Describe various strategies for their management.
3. Name major pests in pulses. Describe damage symptoms of three major lepidopteran and sucking pests with their chemical management.
4. Describe the life cycle of guava fruit fly. Give its damage symptoms and detailed management for rainy season fruit.
5. Give brief about sugarcane mite, pyrilla and black bug in sugarcane along with one strategy for their management. Also give biological control for sugarcane top borer.
6. What are major pests on okra and brinjal? Give their damage symptoms and detailed management strategies for okra fruit borer.

SECTION-C

7. Explain different sources of stored grain infestation. Explain various methods of stored grain pest management.
8. Give ETL and integrated pest management of maize borer, rice stemborers and rice leaf folder as per PAU, Ludhiana.
9. Elaborate different damage symptoms caused by sucking and bollworm pests on cotton and okra crop? Give management of whitefly and spotted bollworms based on economic threshold level.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.