

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

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

INSECT PESTS OF CROPS AND STORED GRAINS

Subject Code : BSAG-505

M.Code : 74169

Date of Examination : 19-12-2022

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION 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. Write short notes on :

- Name major pests of rice pests under Punjab conditions? Write brief on damage symptoms of rice stem borers and rice leaf folder in rice crop.
- What are damage symptoms of maize borer in maize and its chemical management?
- What are damage symptoms of aphid attack on wheat? Give its chemical management.
- Give host range of *Helicoverpa armigera* and what is its chemical control recommended by PAU, Ludhiana on cotton and chickpea?
- What pests cause marginal yellowing of leaves and honey dew secretions on okra? Give control measures as per PAU Package of Practices for vegetable.
- How fruit fly completes its life cycle on guava? Give brief about control measures followed for its management in rainy season guava.
- What are primary and secondary storage pests? Give two examples in each.
- Give in brief damage by hopper on mango and its management?

- i) What are the major pests on oilseed crops? Give economic threshold level based management of mustard aphids on gobhi sarson.
- j) Why Bt cotton is toxic to bollworm complex? Give its lethal effects on the targeted pest.

SECTION-B

- 2. Briefly explain the damage symptoms of sucking and bollworm complex on cotton crop? Give their management based on economic threshold level.
- 3. Write briefly about various sugarcane pests. Give integrated pest management of sugarcane early shoot borer.
- 4. Differentiate mite and an insect. What damage symptoms are caused by mites on chilli, okra, brinjal, cucurbits, citrus, peach and pear? Give mite management on okra.
- 5. Give detailed biological control of stemborers, maize borer and early shoot borer in rice, maize and sugarcane, respectively.
- 6. What are major pests on ornamental crops? Give their management strategies on rose, jasmine, hibiscus and chrysanthemum.

SECTION-C

- 7. Explain the damage symptoms of sucking and bollworm complex on cotton crop? Give their management based on economic threshold level.
- 8. What are the major pests of cole crops (cabbage/cauliflower/broccoli) and their management strategies?
- 9. Enlist various agencies causing storage losses. How transportation and altitude influence the storage?

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.