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Total No. of Pages : 02

Total No. of Questions : 09

**B.Sc. (Agriculture) (Sem.-5)**  
**PESTS OF CROPS, STORED GRAINS AND**  
**THEIR MANAGEMENT**

**Subject Code : BSAG-503-19**

**M.Code. : 90942**

**Date of Examination : 07-07-22**

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. Write briefly :**

- a. What damage symptoms are caused due to stemborers, leaffolder and planthoppers on rice crop?
- b. Give brief about host range, scientific name and taxonomic classification of American bollworm under Phylum arthropoda.
- c. List the factors affecting fungal growth and grain deterioration?
- d. How will you differentiate mite incidence on okra in the field? How it differs from an insect based on its body characteristics?
- e. List major citrus pests in Punjab. Give damage symptoms and control methods for citrus psylla.
- f. Write down type of damage due to mites and thrips on chilli under screen house conditions and their control.
- g. Mention the Ideal conditions for the storage of grains.
- h. What type damage is caused by mustard sawfly and aphid in oilseed crops? Give aphid management.
- i. What major pests are attacking cucurbitaceous crops in Punjab? Give control for melon fruitfly.
- j. Name scientific names of all bollworm species attacking cotton and how they can be managed by applying sex pheromone traps?

## SECTION-B

2. Describe briefly about the major pests of cabbage and cauliflower. Give all the control strategies for the diamond back moth.
3. What rodent pests and birds are associated with stored grains? Give their PAU recommended, control measures.
4. Describe how various microbial, insect pests and fungal activities affect stored grains? How hot spot develops and managed?
5. Describe the biological control of various borer pests through *Trichogramma* cards in maize, sugarcane and rice.
6. Name major sucking and non-sucking pests of pulses? Mention their nature of damage and control strategies.

## SECTION-C

7. Elaborate different sources of stored grain infestation. Explain various methods of stored grain pest management.
8. Describe the integrated pest management strategies for control of maize borer and sugarcane early shoot borer as per by PAU, Ludhiana.
9. Write note on different indigenous and modern storage structures used for grain storage in India. Differentiate storage practices followed in developing and developed nations.

**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.**