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Enrollment No.....



Faculty of Agriculture
End Sem Examination Dec-2023
AG3CO36

Pests of Crops and Stored Grain & their Management

Programme: B.Sc. (Hons.) Branch/Specialisation: Agriculture

Duration: 3 Hrs.

Maximum Marks: 50

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1 i. Gram Pod borer is belonging to _____ order and family. **1**
(a) Hemiptera, Delphacidae (b) Lepidoptera, Noctuidae
(c) Isoptera, Termitidae (d) Coleoptera, Curculionidae
- ii. Damaging stage of Tobacco Caterpillar is _____. **1**
(a) Maggot (b) Caterpillar (c) Grub (d) Nymph
- iii. Most damaging pest of cotton bollworm is _____. **1**
(a) American Bollworm (b) Pink Bollworm
(c) Spotted Bollworm (d) None of these
- iv. In Rice crop white ear & dead heart symptoms produced by- **1**
(a) Aphid (b) Rice Stem Borer
(c) BPH (d) Gandhi Bug
- v. Damaging stage of Rice weevil is _____. **1**
(a) Maggot (b) Caterpillar (c) Grub and Adult (d) Nymph
- vi. Mango stem borer is belonging to _____ order. **1**
(a) Hemiptera (b) Lepidoptera
(c) Isoptera (d) Coleoptera
- vii. Stored grain pest is managed by _____. **1**
(a) Surface treatment (b) Seed Treatment
(c) Fumigation (d) All of these
- viii. Modified atmospheric pressure is tactics of which part of IPM? **1**
(a) Physical (b) Biological (c) Legal (d) Chemical
- ix. Which of the following is miticides _____. **1**
(a) Quinalphos (b) Propargite
(c) Mancozeb (d) None of these

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- x. Scientific name of Rice weevil is _____. **1**
(a) Xanthomasoryzae (b) Helicoverpaarmigera
(c) Eriasvitella (d) Sitophilusoryzae
- Q.2 i. Define insect and pest. **1**
ii. Write down the damaging symptoms of Rice stem borer. **2**
iii. Explain the major pest of cotton in detail. **5**
- OR iv. Write down the any five lepidopteran insect pests with their scientific name, order, family, life cycle, damaging stage and management. **5**
- Q.3 i. Define EIL. **1**
ii. How to manage sucking pest through systemic insecticides? **3**
iii. Describe the major insect pest of legumes. **4**
- OR iv. Write down the four major pulse insect pests with their scientific name, order, family, life cycle, damaging stage and management. **4**
- Q.4 i. What is the fundamental principle of grain storage and management? **2**
ii. What are the factors affecting loss of stored grains? Elaborate in detail. **6**
- OR iii. Explain the role of physical, biological, mechanical and chemical factors in deterioration of grain. **6**
- Q.5 i. What do you mean about physical factor? **2**
ii. Differentiate between systemic and contact insecticides. **2**
iii. Enlist any four names of miticides with their AI, dosage and target pest. **4**
- OR iv. Enlist any four names of insecticides with their AI, dosage and target pest. **4**
- Q.6 Attempt any two: **4**
i. Explain any three stored grain pest with their management. **4**
ii. How to control bird, mites and rodents? **4**
iii. Enlist the four insect pests of okra or citrus with their systemic position. **4**

P.T.O.