

B.Sc. (Ag.) Honours Semester-VI Examination, 2017

**Course No: AEN-321 (Crop Pests & Stored Grain Pests
& Their Management)**

Signature of Centre Superintendent

Roll No. : (in figure) _____ (in words) _____

Student Index No. _____ Regn. No. _____ of _____

Time : Two Hours

Full marks : 40

Questions are of value as indicated in the margin

Part - I
(Objective and Short Answer Type)
(Use only ball point pen)

Time : 20 minutes

Full marks : 10

- Note:** 1. Answer in question paper itself.
2. Striking, rewriting or overwriting are not allowed in the objective type questions.

1. State True (T) or False (F) for the following statements:

6×0.5=3

- a) Bunches of grasses can be used to trap cut worm in potato field ☐
- b) Gram pod borer lays egg in cluster ☐
- c) Mirid bug is an important natural enemy found in rice agro-ecosystem ☐
- d) *Anomis sabulifera* is a polyphagous pest ☐
- e) "Hopper burn" is a typical damage symptom produced by brown plant hopper in rice ☐
- f) Anar butter fly can be managed by bagging the pomegranate fruits ☐

2. Fill with the most appropriate words in the following blank spaces:

8×0.5=4

- a) The lepidopteran larvae feed on chlorophyll content in between two epidermal layers of citrus leaves _____.
- b) Dicofol can be used to control _____ pest.
- c) Earthing up of cotyledonary nodes in cotton is a common cultural practice to avoid infestation by _____ insect.
- d) The stored grain insect that attacks the whole grains is known as _____.
- e) To avoid the development of bait shyness in rat _____ practice is generally done.
- f) Scientific name of African giant snail _____.
- g) Pink stem borer is a regular pest of _____ crop.
- h) Reflective ribbon is used to scare the _____ to reduce seed damage in sunflower field.

3. Mention the insect pests responsible for following damage symptoms in the crop:

6×0.5=3

- a) Double seeded cotton _____
- b) Partially chaffy grains of rice _____
- c) Silvery shiny mines on ground nut leaves _____
- d) Inverted boat shaped of chilli leaves _____
- e) Parallel holes on sugarcane leaves _____
- f) Knotty fibre of jute _____

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Part - II
(Descriptive Type)

Time : 100 Minutes

Full marks : 30

Questions are of value as indicated in the margin

Answer *any three* questions.

4. Enumerate major insect-pests of mango. Write down nature and symptoms of damage caused by any three pests each from Coleoptera, Homoptera and Diptera. Suggest some eco-friendly pest management practices against them. 2+4.5+3.5=10
5. a) Mention borer complex of tomato. Briefly discuss the biology and nature of damage caused by any of them. 1+3=4
b) What are the insect-pests constraints of okra? Justify, among which do you think the most damaging one. Write some suitable control measures to reduce the pest population. 2+1+3=6
6. a) Enlist some important pests of cabbage and cucurbits. Suggest some suitable control measures against any two of them. 1+3=4
b) Name some important sucking and chewing pests of rice. Write biology, nature of damage with some effective control measures against any one lepidopterous pest. 2+4=6
7. a) State different insect pests infesting coconut and banana. Briefly discuss on nature and symptoms of damage caused by any one pest from each crop category. 1.5+3=4.5
b) Mention some internal and external feeders of stored grains. Write in very brief on some effective management practices before and after storage for better shelf life of stored grains. 1.5+4=5.5
8. Write short notes on ***any four*** of the following: 4×2.5=10
- a) Termite
 - b) Sugarcane internode borer
 - c) Sorghum shoot fly
 - d) Mustard aphid
 - e) Citrus fruit sucking moth
 - f) Red hairy caterpillar of ground nut
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