

B.Sc. (Ag.) Honours Semester-VI Examination, 2018

Course No: AEN-321 (Crop Pests and Stored Grain Pests and their Management)

Signature of Centre Superintendent

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

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

Time : 2 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) "Silver shoot" in rice is caused due to infestation by *Nilaparvata lugens*
- (b) "Knotty fibre" in jute is caused by jute apion
- (c) Physogastry is found in termites
- (d) Potato cut worm generally damages the plant during daytime
- (e) Bromadiolone is used to control rodents
- (f) *Apraerema modicella* is a pest of groundnut

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

8×0.5=4

- (a) *Acherontia styx* is a pest of _____.
- (b) Rolled leaves in cotton field is due to infestation by _____.
- (c) *Metarhizium anisopliae* is used to control _____ pest of coconut.
- (d) The development of "sooty mould" on mango leaves is due to infestation by _____.
- (e) The insect-pest which attacks the whole grain is called _____.
- (f) Eriophyid mites forms _____ on the plants.
- (g) *Cosmopolites sordidus* is a pest of _____
- (h) Dead hearts in maize field is due to infestation by _____

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

6×0.5=3

- (a) Parallel whitish streaks on rice leaves _____
- (b) Formation of Galls on the coteledonary nodes of cotton _____
- (c) "Dead heart" in wheat field _____
- (d) Bored holes in tomato _____
- (e) Frass with silken threals on coconut leaves _____
- (f) Drying of inflorescence of mango _____

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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 the insect pests of sugarcane. Write nature and symptoms of damage caused by three major pests two from order Lepidoptera and one from order Hemiptera. Suggest control measures against these pests. 2+4.5+3.5=10
 5. Enlist the pests cruciferous crops with their taxonomic position. Write symptoms of damage of three major pests of mustard. Suggest eco-friendly control measures against them. 2+4.5+3.5=10
 6. State different insect pests infesting citrus. Discuss symptoms of damage and biology of two major pests. Write appropriate control measures against them. 2+6+2=10
 7. (a) Write nature and symptoms of damage, life-history and control of brinjal shoot and fruit borer/mango fruit fly.
(b) Mention the important rodent species. Give an account of management of rodents. 5+5=10
 8. Write short notes on *any five* of the following: 5×2=10
 - (a) Gram caterpillar
 - (b) Jute semilooper
 - (c) Potato tuber moth
 - (d) Phase theory of locust
 - (e) Red palm weevil
 - (f) Tea mosquito bug
 - (g) Management of red pumpkin beetle
 - (h) Rice case worm
 - (i) Non-chemical management of stored grain pests
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