B.Sc. (Ag.) Honours Semester-VI Examination, 2019

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:** 0.5×6=3
   (a) Cut leaf bit floating in water is characteristic symptom of rice leaf folder. ☐
   (b) Individual rice grains become white and chaffy due to attack of rice gandhi bug. ☐
   (c) *Chilo zonellus* feed on silk and developing cobs of maize. ☐
   (d) Larvae of pink boll worm overwinter in soil. ☐
   (e) Gummosis and crown topping in coconut is characteristic symptom of rhinoceros beetle. ☐
   (f) Coal tar painting on mango stem is done to control of mango mealy bug. ☐
2. **Fill in the most appropriate words in the following blank spaces:** 0.5×8=4
   (a) *Aceria litchi* is a _____ pest of litchi.
   (b) Mines on leaves and bore holes on tender shoots and tubers in potato are caused by _____.
   (c) In pomegranate, bagging of fruits with polythene cover is clue to avoid damage from _____.
   (d) Leaf curls down, inverted boat shaped chilli leaf is due to attack of _____.
   (e) The bacteria responsible for staining of cotton fibre is _____.
   (f) *Platygaster oryzae* is a larval parasitoid of _____.
   (g) Keeping of heaps of green grasses on different spots in field is due to control of _____.
   (h) Meta aldehyde is used for control of _____.
3. Mention the insect pests responsible for following damage in the crop: 0.5×6=3
   (a) White silvery lines on citrus leaves.
   (b) Irregular holes on cucurbit leaves.
   (c) Marginal rolling of rice seedlings.
   (d) Larvae web together the grains and feed within web.
   (e) Minining and skeletanization of cabbage leaves.

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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. Enlist the pests of rice with their taxonomic position. Write symptoms of damage caused by three major pests one from order lepidoptera, one from order Hemiptera and one from order Diptera. Suggest control measures against these pests. 2.5+4.5+3=10

5. Enumerate the insect pests of mango with taxonomic position. Write symptoms of damage caused by three major pests of different orders. Suggest their suitable control measures. 2.5+4.5+3=10

6. Make of list of major insect-pests of tomato with taxonomic position. Write symptoms of damage caused by three pests of different orders. Suggest their suitable control measures. 2.5+4.5+3=10

7. (a) State different insect-pests infesting stored grain along with systemic position. Write the damage symptoms of one internal and one external feeder and mention their eco-friendly management. 1.5+3+1.5=6

   (b) Write the different species of rodents. Write the damage symptoms of rodents in general. Write two rodenticides for their control along with dosages. 1+2+1=4

8. Write short notes on ***any five*** of the following: 2×5=10

   (a) Chemical control of mites

   (b) Okra jassids.

   (c) Ground nut leaf miner

   (d) Sugarcane pyrilla

   (e) Pink boll worm

   (f) Red spider mite of tea

   (g) Cardamon capsule borer

   (h) Chemical control of termite
