KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Ag. 2013 Admission IVth Semester Final Examination-July/August-2015

Cat. No: Ento.2203 Marks: 50
Title: Pests of crops and stored grain and their management (2+1) Time:2 hours

I Give the casual organism for the following symptoms

 $(10 \times 1=10)$

- 1. Yellowing of leaves stunting of plants sooty mould and drying in circular patches in paddy fields
- 2. Bore holes in maize cob
- 3. Diamond shaped cut in coconut leaflets
- Central leaf dried which can be easily pulled out ,bore hole at the base of the young sugarcane plants
- 5. Gall in the collar region of cotton stem
- 6. Serperntine leaf mining in citrus
- 7. Moringa pods drying from the tip upwards with gummy ooze
- 8. Potato tubers tunneled and rotting
- 9. Stem and capsule of cardamom with boreholes
- 10. Webbing ,caking of grains and presence of yellowish white larva

II Write short notes on any FIVE

 $(5 \times 2 = 10)$

- 1. List three insect pests with their systematic position attacking rice nursery
- 2. Distinguish the sorghum ear head bug and ear head midge
- 3. Name three subterranean insect pests attacking groundnut with symptoms of damage
- 4. Give a short account on tea mites
- 5. Give the biology and symptoms of damage of pollu beetle
- 6. Give the host range and biology of tea mosquito bug
- 7. Enlist three major pests of Ashwagandha with their systematic position

III Write short notes on any FIVE

 $(5 \times 4=20)$

- 1. Rice stem borer
- 2. Wheat stem sawfly
- 3. Cotton pink bollworm
- 4. Sugarcane inter node borer
- 5. Brinjal shoot and fruit borer
- 6. Potato tuber moth
- 7. Coffee berry borer

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IV Write essay on ANY ONE

 $(1 \times 10=10)$

- 1. a) Enlist five major insect pests of coconut with their systematic position
 - b) Give detailed account on the coconut IPM tactics with special emphasis on biological control
- 2. a) List out five major insect pests attacking storage products with systematic position
 - b) Discuss on the preventive and curative methods on the management of stored product pests

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