



KERALA AGRICULTURAL UNIVERSITY
B. Sc. (Hons.) Ag . 2016 Admission -
IV Semester Final Examination-July-2018

to.2203

Pests of crops and their management I (1+1)

Marks: 50
Time: 2 hours
(10x1=10)

I

Fill in the blanks:

- 1 *Maconellicoccus hirsutus* in grapevine is controlled by an exotic predator
- 2 Root aphid, *Tetraneura nigriabdominalis* is a pest on
- 3 Mustard saw fly, *Athalia lugens proxima* belongs to the family
- 4 Silver shoot or onion shoot in rice is due to
- 5 is a pest on pulses in both field and storage godowns.
- 6 is an introduced pest with imported potatoes from Italy to India in 1937.
- 7 is a vector of cassava mosaic virus disease.
- 8 The scientific name of cotton mealy bug is
- 9 is a phytophagous coccinellid in brinjal.
- 10 Sesame phyllody disease is transmitted by

II

Write Short notes on ANY FIVE of the following (5x2=10)

- 1 How to differentiate the symptoms caused by thrips and muranai mite in chilli?
- 2 List out the hoppers in rice.
- 3 How will you identify the adults of *Earias vittella* and *E. insulana*?
- 4 List out the bollworm complex in cotton with their scientific names, family and order.
- 5 What are all the symptoms caused by mango hoppers?
- 6 List out the butterfly and skipper pests in horticultural crops (Any four) with their scientific names, family and order
- 7 What are all the symptoms caused by fruit flies in cucurbits?

III

Answer ANY FIVE of the following (5x4=20)

- 1 What are all the diseases transmitted by insects in horticultural crops and write their common name, scientific name, family and order (Any eight)
- 2 List out the invasive insect pests in India (Any eight) and write their common name, scientific name, family and order
- 3 Management of *Plutella xylostella* in cruciferous vegetables
- 4 List out the pod borer complex in pulses with their scientific names, family and order (Any eight)
- 5 Biology and management of *Leucinodes orbonalis* in brinjal
- 6 List out the primary storage pests in field and horticultural crops with their scientific names, family and order (any eight)
- 7 Management of *Helicoverpa armigera* in cotton

IV

Write an essay on ANY ONE of the following (1x10=10)

- 1 List out the major insect pests in banana and how will you manage curculionids in banana?
- 2 Integrated Pest Management (IPM) in rice
