



KERALA AGRICULTURAL UNIVERSITY
B.Sc.(Hons.) Ag. 2017 Admission
III Semester Final Examination-January-2019

ento.2102 **Insect Ecology and Integrated Pest Management (2+1)** **Marks: 50**
Time: 2 hours

I Define (10x1=10)

- 1 Population
- 2 Aestivation

3 **Expand**
DPPQS

Fill in the blanks:

- 4 An example of Socio-Homeothermic animal.
- 5 An example of short day species.
- 6 A specific predator of cottony cushion scale is.....
- 7 The amount of active ingredient present in Granule formulation is percent.
- 8 Zone of effective temperature for insects.....
- 9 Rotenone is extracted from the roots of.....
- 10 Spinosad is produced from fermentation of

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

- 1 Life tables
- 2 Anticoagulant rodenticides
- 3 Classical biological control
- 4 Resurgence
- 5 Pest surveillance
- 6 Micro encapsulation
- 7 Antidotes

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

- 1 Cultural methods of pest management.
- 2 Pheromones
- 3 Transgenic crops with special reference to Bt cotton.
- 4 Entomopathogenic nematodes
- 5 Working principles of knapsack sprayer.
- 6 Legislative method of pest management.
- 7 Mode of action of Ryanodines.

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

- 1 Types of sprayer depending on quantity of spray fluid.
- 2 Mechanisms of host plant resistance to insects.
