



KERALA AGRICULTURAL UNIVERSITY
B.Sc (Hons.) Agriculture 2016 Admission
II Semester Final Examination-August-2017

Ento.1201

Fundamentals of Entomology (2+1)

Marks: 50
Time: 2 hours

I Fill up the blanks (10x1=10)

- 1 ----- is the hormone responsible for moulting.
- 2 Stridulatory organs are found in the order -----
- 3 Prognathous head is seen in -----

State True/False

- 4 Whitefly is a true fly
- 5 Antlion is an adult insect form
- 6 Lac a glandular secretion of female lac insect act as a protective covering

Match the following

- | | |
|----------------------|-----------------|
| 7 Raptorial forelegs | a Male Mosquito |
| 8 Johnston's organ | b Hymenoptera |
| 9 Parasitoid | c Mantidae |

Define

- 10 Ecdysis

II Write short notes on any FIVE (5x2=10)

- 1 Give a list of parasitoids in the order hymenoptera.
- 2 Parthenogenesis
- 3 Differentiate Oviparous and viviparous insects.
- 4 Key characters of Formicidae.
- 5 Hind leg modification in honeybee.
- 6 Draw a diagram of male reproductive system in insects with labeling.
- 7 International Code of Zoogical Nomenclature.

III Answer any FIVE (5x4=20)

- 1 Describe the insect integument.
- 2 Endocrine glands in insects.
- 3 Define metamorphosis with reference to different types.
- 4 Describe the characteristic features of isoptera.
- 5 Describe the different types of insect antennae.
- 6 Describe respiration in aquatic insects.
- 7 Write about insect sense organs.

IV Write essay on any ONE (1x10=10)

- 1 Give an account of the different types of mouth parts of insects with appropriate diagrams.
- 2 Give an account of structure and function of the digestive system in insects.
