

C 31308

(Pages : 2)

Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2017

(CUCSS)

Zoology

ZO 3E T09—ENTOMOLOGY—I MORPHOLOGY AND TAXONOMY

(2016 Admissions)

Time : Three Hours

Maximum : 36 Weightage

Part A

I. Answer all *fourteen* questions :

- 1 Write down the distinguishing features of Zoraptera.
- 2 Name any *two* species of gall forming insects.
- 3 What is 'bee venom' ?
- 4 What is opisthognathous head ? Give example.
- 5 What are 'stink bugs' ?
- 6 What are the features of Thysanoptera ?
- 7 What is 'swarm intelligence' ?
- 8 Comment on 'stylopisation'.
- 9 Name any *two* Dipteran disease vectors and the diseases spread by them.
- 10 Comment on the damage by leaf miners.
- 11 Write notes on biosurgery.
- 12 What are antlions ?
- 13 Write notes on larval locomotion in Geometridae.
- 14 Explain medical importance of Reduviidae.

(14 × 1 = 14 weightage)

Part B

II. Answer any *seven* questions :

- 15 Write an account on the features of Cerambycidae.
- 16 Explain the economic importance of Aphididae.

Turn over

- 17 Write notes on the major modifications of thoracic legs in insects.
- 18 Describe any *two* theories on head segmentation.
- 19 Explain the biology of Culicidae.
- 20 Comment on the role of Diptera in Forensic Entomology.
- 21 Describe the structure of wing coupling apparatus.
- 22 Discuss the types of antennae in insects.
- 23 Explain the structure and function of stridulating organ.
- 24 Describe the nesting behaviour of Vespidae.

(7 × 2 = 14 weightage)

Part C

III. Answer any *two* questions :

- 25 Classify Lepidoptera up to family giving diagnostic features of each family.
- 26 Give an account on origin and evolution of wings in insects.
- 27 Explain adaptations of aquatic insects.
- 28 Give an account on Insect communication.

(2 × 4 = 8 weightage)