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Name.....

Reg. No.....

**THIRD SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)  
EXAMINATION, NOVEMBER 2022**

(CBCSS)

Zoology

**ZOL 3E 09 (01)—ENTOMOLOGY I : MORPHOLOGY AND TAXONOMY**

(2019 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

**Part A**

I. Answer any *four* of the following. Each question carries 2 weightage :

- 1 Enlist the salient features of the order Thysanoptera.
- 2 Write the swimming adaptations of aquatic insects.
- 3 Give an account of the stridulatory organs in orthopterans.
- 4 What is tentorium ? Explain the structure.
- 5 Write the characters of the order Siphonaptera.
- 6 What are the adaptations of parasitic insects ?
- 7 Explain polymorphism in aphids.

(4 × 2 = 8 weightage)

**Part B**

II. Answer any *four* of the following. Each question carries 3 weightage :

- 8 Describe the physiology of gall formation.
- 9 Explain the modifications of insect head capsule.
- 10 Describe the wing coupling mechanisms in insects.
- 11 What are the different forms of leaf mines ? Add a note on the economic importance of leaf mining.
- 12 Describe the salient features of the order Hymenoptera.
- 13 Briefly explain the mating behaviour in odonates.
- 14 Explain chemical communication in insects.

(4 × 3 = 12 weightage)

Turn over



45

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Part C

III. Answer any *two* of the following. Each question carries 5 weightage :

- 15 Explain the structure of insect head.
- 16 Write an essay on the various structural modifications of thoracic legs in insects.
- 17 Write an essay on the social behaviour of termites.
- 18 Classify the order Coleoptera down to families with descriptions and examples.

(2 × 5 = 10)