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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.

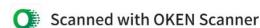
 $(4 \times 2 = 8 \text{ weightage})$ 

## 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.

 $(4 \times 3 = 12 \text{ weightage})$ 

Turn over





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

 $(2 \times 5 = 10)$