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Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY) EXAMINATION, NOVEMBER 2021

(CBCSS)

Zoology

ZOL 3E 09—ENTOMOLOGY—I : MORPHOLOGY AND TAXONOMY

(2019 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

General Instructions

1. *In cases where choices are provided, students can attend* **all** *questions in each section.*
2. *The minimum number of questions to be attended from the Section / Part shall remain the same.*
3. *The instruction if any, to attend a minimum number of questions from each sub section / sub part / sub division may be ignored.*
4. *There will be an overall ceiling for each Section / Part that is equivalent to the maximum weightage of the Section / Part.*

Part A

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

1 Briefly explain locomotion in Collembola.

2 Give an account of fossil insects.

3 Comment on the stridulation in Cicada.

4 Describe the types of insect head.

5 What is endothorax ? Explain the structure.

6 Write notes on common galls pests.

7 Write a short account of termitarium.

(4 × 2 = 8 weightage)

Part B

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

8 Describe the different types of antennae in insects.

9 Briefly explain sexual dimorphism and parental care in Dermaptera.

Turn over

10 Describe the abdominal appendages in insects.

11 Write the major characters and medical importance of the family Reduviidae.

12 Explain the salient features of the order Lepidoptera.

13 Give an account of oviposition methods in aquatic insects.

14 Describe the adaptations of parasitic and predatory insects.

(4 × 3 = 12 w

Part C

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

15 Write an essay on different types of mouthparts in insects.

16 Make a critical account of caste differentiation and social behaviour in honey bees.

17 Write an essay on insect communication.

18 Classify the order Orthoptera down to families giving salient features and examples.

(2 × 5 = 10 w