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(Pages : 2)

Name.....

Reg. No.....

**THIRD SEMESTER M.Sc. DEGREE (REGULAR) EXAMINATION
NOVEMBER 2019**

(CUCSS)

Zoology

ZO 3ET 09—ENTOMOLOGY—I MORPHOLOGY AND TAXONOMY

(2016 Admissions)

Time : Three Hours

Maximum : 36 Weightage

Part A

I. Answer all *fourteen* questions :

- 1 Write notes on special features of Lampyridae.
- 2 Write down the aquatic adaptations of Nepidae.
- 3 What is 'tentorium' ?
- 4 Name any *two* orders of fossil insects.
- 5 Distinguish between dragon flies and damsel flies.
- 6 What are 'stone flies' ?
- 7 What is 'termitarium' ?
- 8 What is prognathous head ? Give example.
- 9 Write the scientific name of rat flea. Mention its medical importance.
- 10 Distinguish between pectinate and bipectinate antennae.
- 11 What are web-spinners ?
- 12 Write down the diagnostic features of Diplura.
- 13 Write notes on economic importance of aphids.
- 14 Comment on parental care in Dermaptera.

(14 × 1 = 14 weightage)

Part B

II. Answer any *seven* questions :

- 15 Write notes on medical importance of Reduvidae .
- 16 Explain the diagnostic characters of Sphingidae.

Turn over

- 17 Write notes on the biology of Neuroptera.
- 18 Write notes on migration in butterflies.
- 19 Explain the biology of Simuliidae.
- 20 Comment on the role of Hymenoptera in insect biological control.
- 21 Describe the structure of wing coupling apparatus.
- 22 Discuss the oviposition methods in aquatic insects.
- 23 Explain the features and adaptations of Phasmida.
- 24 Comment on the role of Dipterans in Forensic Entomology.

(7 × 2 = 14 weightage)

Part C

III. Answer any *two* questions :

- 25 Classify Hymenoptera up to family giving diagnostic features of each family.
- 26 Give an account on mouth parts of insects.
- 27 Give an account on communication in insects.
- 28 Explain gall forming insects and their adaptations.

(2 × 4 = 8 weightage)