

M.Sc. (Part—II) Semester—III (CBCS) Examination
ZOOLOGY
(Entomology—I (Insect Classification and Morphology))
Paper—XI
(Elective Paper—I)

Time : Three Hours]

[Maximum Marks : 80

- Note :—** (1) All questions are compulsory.
(2) All questions carry equal marks.
(3) Illustrate your answers with suitable diagrams wherever necessary.

1. Give an account of major classification of class Insecta.

OR

Describe all the orders of sub-class Pterygota.

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2. Explain the following :

- (a) Distinguishing characteristics of order Colcoptera.
- (b) General biology of Dipteran Insects.
- (c) Economic importance of Hymenopteran Insects.
- (d) Subdivision Endopteregota.

OR

- (e) Characteristics of order Hymenoptera.
- (f) General Biology of Lepidopteran Insects.
- (g) Distinguishing characteristics of Dipteran Insects.
- (h) Explain Panorpid orders.

3. Give an account on structure and modifications of Head.

OR

Describe the insect body wall with reference to special integumentary structures.

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4. Explain the following :

- (i) Wing coupling structure.
- (j) The tergum.
- (k) Structure of legs.
- (l) Pterothorax.

OR

(m) The sternum.

(n) Structure of wings.

(o) Mechanism of flight.

(p) Wing venation.

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5. Explain the following :

(q) Segmentation of abdomen.

(r) Pregenital appendages.

(s) Male genitalia.

(t) Morphology of the dorsal ocelli.

OR

(u) Post genital appendages.

(v) Female genitalia.

(w) The mechanoreceptor : The Tactile Organ.

(x) Structure of Sensilla Trichoidea.

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