

Third Semester M.Sc. - II Examination

ZOOLOGY

Paper - XI

(Elective Paper Entomology - I)

Insect Classification and Morphology

P. Pages : 3

Time : Three Hours]

[Max. Marks : 80

- Note :** (1) All questions are compulsory.
(2) All questions carry equal marks.
(3) Draw well labelled diagrams wherever necessary.

1. Give an account of the followings :—

- (a) Modern scheme of insect classification.
- (b) Thysanura.
- (c) Diplura.
- (d) Adanata.

OR

- (e) Ephemeroptera.
- (f) Protura.

(g) Collembola.

(h) Economically important families of
Ephemeroptera. 16

2. Describe the followings :—

(i) Economically important families of
Neuroptera.

(j) General biology of Lepidoptera.

(k) General biology of coleoptera.

(l) Distinguishing characters of Diptera.

OR

(m) Distinguishing characters of Hymenoptera.

(n) General biology of strepsiptera.

(o) Economically important family of order
lepidoptera.

(p) Economically important families of
Coleoptera. 16

3. Describe principles, utility and relevance insect
body wall structure.

OR

Describe tentorium and neck sclerites in insects. 16

4. Give an account of the following :—

(q) Areas and sutures of tergum.

(r) Structures and modifications of wing.

(s) Mechanism of flight.

(t) Structure of legs.

OR

(u) Sternum and pleuran.

(v) Coupling apparatus.

(w) Modifications of legs.

(x) Venation of wings. 16

5. Describe morphology of mechano and pho-
toreceptors in insects.

OR

Describe female genitalia in insects. 16

