

AE-783

M.Sc. (Final)
Term End Examination, 2016-17

ZOOLOGY

Special Paper : Entomology

Paper - III

Morphology and Physiology of Insects

Time : Three Hours] [Maximum Marks : 100
[Minimum Pass Marks : 36

Note : Answer **all** questions. All questions carry equal marks.

Unit-I

1. Write an essay on Cephalisation.

OR

Write short notes on the following :

- (a) Wing venation in order Lepidoptera
- (b) Moulting

(2)

Unit-II

2. Explain the respiratory adaptation in aquatic and endoparasitic insects.

OR

Write short notes on the following :

(a) Osmoregulation in insects
(b) Function of hemolymph in insects

Unit-III

3. Explain the endocrine structure and function in insects.

OR

Write short notes on the following :

(a) Bioluminescence in insects
(b) Chemoreception in insects

Unit-IV

4. Explain the endocrine control of reproduction and metamorphoses.

OR

Describe the various types of Larva and Pupa and their significance.