

# 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

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**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.

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