

This question paper contains 2 printed pages]

**NY—172—2023**

**FACULTY OF SCIENCE AND TECHNOLOGY**

**M.Sc. (Second Year) (Third Semester) EXAMINATION**

**NOVEMBER/DECEMBER, 2023**

**(New/CBCS Pattern)**

**ZOOLOGY**

**Paper—XIII-C**

**(Entomology–I)**

**(Insect, Structure and Function)**

**(Saturday, 9-12-2023)**

**Time : 2.00 p.m. to 5.00 p.m.**

*Time—3 Hours*

*Maximum Marks—75*

*N.B. :- (i) Attempt All questions.*

*(ii) All questions carry equal marks.*

*(iii) Draw well labelled diagrams wherever necessary.*

1. Explain in detail general morphology and exoskeleton in insect. 15

*Or*

Describe different types of mouth parts and mechanism of feeding in insect.

2. Explain in detail wing structure and modification. 15

*Or*

Describe external genitalia of male and female insect.

P.T.O.

WT

( 2 )

NY—172—2023

3. Explain morphological, histological modification of alimentary canal and digestive gland of insect. 15

*Or*

Describe excretory system of osmoregulation in insect.

4. Describe Respiratory system and mechanism of ventilation in Insect. 15

*Or*

Explain reproductive system in honey bee.

5. Write short notes on any *three* of the following : 15

- (a) Head Segmentation
- (b) Structure of Leg
- (c) Haemolymph Composition
- (d) Nervous Integration.

NY—172—2023

2