

M.Sc. (Zoology) (CBCS Pattern) Sem-III
PSCZOOT10-1 Paper-X Special Group : Entomology Paper-I
Insect Morphology and Physiology

P. Pages : 1

Time : Three Hours



GUG/W/22/11307

Max. Marks : 80

- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Draw well labelled diagrams wherever necessary.

1. Describe morphology of head, thorax and Abdomen **16**

OR

Write notes on.
 - a) Describe wing structures of insect.
 - b) Describe Appendages and Antennae.
2. Describe circulatory system of insect add a note on function of hemocytes. **16**

OR

Write notes on
 - a) Plastron respiratory mechanism in insects.
 - b) Structure of salivary gland and its function.
3. Describe pheromones and allomones and its chemistry and function. **16**

OR

Write notes on
 - a) Physiology of Excretion in insects.
 - b) Structure and anatomy of ventral nerve cord.
4. Describe female reproductive system in insects add a note on oogenesis. **16**

OR

Write note on
 - a) Describe polyembryony and pedogenesis
 - b) Types of larvae and pupae.
5. Attempt the followings. **16**
 - a) Molting.
 - b) Feeding Mechanism.
 - c) Neuroendocrine system.
 - d) Germ band formation.
