

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

P. Pages : 1

Time : Three Hours



GUG/S/23/11307

Max. Marks : 80

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- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Illustrate your answer with suitable diagram.

1. Write a detailed account on wing structure and mechanism of flight in Insect. **16**

OR

- a) Integuments.
- b) Insect Appendages.

2. Write a detailed account on Structure of alimentary canal, salivary glands and mechanism of digestion. **16**

OR

- a) Respiratory System
- b) Mouth Parts

3. Describe the Neuroendocrine system of insect and role in metamorphosis and reproduction. **16**

OR

- a) Excretory system
- b) Exocrine glands.

4. Write a detailed account on male and female reproductive system in insect. **16**

OR

- a) Parthenogenesis and paedogenesis.
- b) Metamorphosis.

5. Attempt the following.

- a) Sclerotization. **4**
- b) Haemocytes. **4**
- c) Allomones. **4**
- d) Viviparity. **4**
