

M.Sc.- II (Zoology) (CBCS Pattern) Sem-III  
**PSCZOOT11-1 Paper-XI : Special Group - Entomology Paper - II :**  
**Classification and Industrial Insects**

P. Pages : 1

Time : Three Hours



**GUG/W/22/11317**

Max. Marks : 80

- Notes :
1. All questions are compulsory.
  2. All questions carry equal marks.
  3. Illustrate your answers with well labelled diagrams wherever necessary.

1. Describe in detail the modern scheme of insect classification and comment on general characters of various orders. **16**

**OR**

Write notes on.

- a) General characters and classification of Collembola.
- b) General characters and classification of Mallophaga.

2. Describe in detail general characters and classification of order Hemiptera. **16**

**OR**

Write notes on.

- i) General characters and classification of Orthoptera.
- ii) General characters and classification of Lepidoptera.

3. Give an account on the life cycle of *Bombyx mori* and comment on structure of silk gland. **16**

**OR**

Write notes on.

- a) *Bombyx mori* rearing and cocoon harvesting.
- b) Lac cultivation and economic importance of Lac insect.

4. What is Tasar sericulture? Describe in detail life cycle host plant rearing and silk production. **16**

**OR**

Write notes on.

- a) *Apis mellifera* life cycle and colony formation.
- b) Honeybee rearing management and diseases of honeybee.

5. Attempt the following. **16**

- a) General characters of Siphonaptera.
- b) Classification of Coleoptera
- c) Nuclear Polyhedrosis Disease of Silkworm
- d) Eri sericulture.

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