

M.Sc.(Zoology) CBCS Pattern Semester-III  
**PSCZOOT11-1 - Paper-XI Special Group : Entomology Paper-II**  
**(Classification of Industrial Insect)**

P. Pages : 1

Time : Three Hours



**GUG/W/23/11317**

Max. Marks : 80

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- Notes :
1. All questions are compulsory.
  2. All questions carry equal marks.
  3. Draw labeled diagram wherever necessary.

1. Explain the General characters and classification of Thysanura and Collembola. **16**

**OR**

Write short notes on

- a) General characters of Siphonaptera
- b) General characters of class Insecta.

2. Describe the general characters and classification of Lepidoptera. **16**

**OR**

Write short notes on

- a) General characters of Orthoptera
- b) Classification of Hemiptera

3. Describe in detail Silkworm rearing, Cocoon harvesting and Seed production. **16**

**OR**

Write short notes on

- a) Viral disease in silkworm
- b) Life cycle of *Bombyx mori*

4. Explain the life cycle host plant rearing and silk production of *Tasar* sericulture. **16**

**OR**

Write short notes on

- a) Life cycle of Honey bee and colony formation.
- b) Bee rearing management and disease of Honey bee

5. Attempt the following **16**

- a) General character of Siphunculata
- b) General characters of Coleoptera
- c) Lac Cultivation
- d) Movable frame hive

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