

M.Sc. (Zoology) (CBCS Pattern) Sem-III  
**PSCZOOT12-2 Foundation-I : Basic Entomology**

P. Pages : 1

Time : Three Hours



**GUG/W/22/11328**

Max. Marks : 80

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

1. Give details account on general anatomical description of insect body-head, thorax & abdomen. **16**

**OR**

Write notes on :

- a) Basic structure and function of insects eyes and antennae.  
b) Insect metamorphosis.

2. Explain in details on Reproduction behaviour of butterflies-copulation and egg laying. **16**

**OR**

Write notes on:

- a) Copulation and egg laying in Dragonflies.  
b) Insect sound production.

3. Give an detailed account on Pheromones. **16**

**OR**

Write notes on:

- a) Honey bee dance.  
b) Edible insects.

4. Write an essay on order lepidoptera (Butterflies) of central India. **16**

**OR**

Write a notes on:

- a) Hymenoptera of central India.  
b) Coleoptera (Beetles) of central India.

5. Attempt the following. **16**  
a) Insect classification.  
b) Insect light production.  
c) Insect pollinators.  
d) Odonata of central India.

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