

Master of Science (M.Sc.) Third Semester (CBCS) (Zoology) Examination**FOUNDATION—I : BASIC ENTOMOLOGY****Optional Paper—4****Paper—IV**

Time : Three Hours]

[Maximum Marks : 80

- N.B. :—** (1) **ALL** questions are compulsory.
(2) All questions carry equal marks.
(3) Illustrate your answers with suitable diagrams.

1. Describe the complete metamorphosis in insects.

OR

Write notes on :

- (a) Insect head
- (b) Functions of eye.

2. Describe the copulation process in butterflies. Add note on egg laying behaviour.

OR

Write notes on :

- (a) Insect Sound production
- (b) Copulation in dragonflies.

3. Give an account on the various types of dances performed by honey bee.

OR

Write notes on :

- (a) Pollinator butterflies
- (b) Pheromones.

4. Give general introduction of any two Ants species found in Central India.

OR

Write notes on :

- (a) Butterflies of central India
- (b) Beetles.

5. Write in brief the following :

- (a) Antenna
- (b) Light production in insect
- (c) Edible insects
- (d) Dragonfly.