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(Pre-CBCS)

(5th Semester)

ZOOLOGY

EIGHTH (B) PAPER

(**Entomology**)

Full Marks : 55

Time : 2½ hours

(**PART : A—OBJECTIVE**)

(*Marks : 20*)

The figures in the margin indicate full marks for the questions

SECTION—A

(*Marks : 5*)

Tick (✓) the correct answer in the brackets provided :

1×5=5

1. Butterfly belongs to the order of

- (a) Isoptera ()
- (b) Orthoptera ()
- (c) Hymenoptera ()
- (d) Lepidoptera ()

2. Sponging type of mouthparts is found in

- (a) butterfly ()
- (b) honeybee ()
- (c) housefly ()
- (d) grasshopper ()

3. *Earias vitella* is a pest of

- (a) paddy ()
- (b) cotton ()
- (c) pulses ()
- (d) sugarcane ()

4. There are total six types of castes in

- (a) ant ()
- (b) honeybee ()
- (c) termite ()
- (d) wasp ()

5. Exchange of food among colony members by mouth is called

- (a) ecdysone ()
- (b) swarming ()
- (c) pheromone ()
- (d) trophallaxis ()

SECTION—B

(Marks : 15)

Write short notes on the following :

3×5=15

- 1.** Major insect pests
- 2.** Body wall of insects
- 3.** Ametabolous metamorphosis
- 4.** Importance of honey
- 5.** Parasitic insects

(PART : B—DESCRIPTIVE)

(Marks : 35)

The questions are of equal value

1. Write the methods of collection and preservation of insects.

OR

Describe any two of the salient features of the major insect pests of paddy.

2. Explain the respiratory system of insect with a labelled diagram.

OR

Describe female reproductive system of insect with suitable diagram.

3. Differentiate between hemimetabolous and holometabolous metamorphosis.

OR

Give an account of caste system in insects.

4. Explain the life cycle of *lac* insect with a diagram.

OR

Write in detail the mechanism of action of insect hormones.

5. Give an account on predatory insects and their effects.

OR

Explain the chemical control of insects with its advantages.

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