

**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**



**B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY**

**FIRST SEMESTER – APRIL 2018**

**17UZO1MC03 / AZ 1508– ECONOMIC ENTOMOLOGY**

Date: 27-04-2018

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

**PART – A**

**Answer ALL questions, each in a few words**

**10 × 2 = 20 marks**

01. Write the scientific names of the following: (i) House fly; (ii) Honey bee
02. Assign the following insects to their respective orders: (i) Grasshoppers; (ii) Beetles; (iii) Butterflies; (iv) Wasps.
03. Mention the hosts of the following insect pests: (i) *Stomoxys calcitrans*; (ii) *Menopongallinae*;
04. Differentiate between Hemimetabola and Holometabola.
05. Name the common disease spread by the following vectors: (i) House fly; (ii) Anopheles mosquito; (iii) Tsetse fly; (iv) Sand fly
06. Name any four types honey bee hives used in India.
07. What is economic threshold of an insect pest?
08. What are organochlorides? Give an example.
09. What are the ideal climatic conditions for the cultivation of mulberry?
10. Expand the following: (i) IPM; (ii) ICAR;

**PART B**

**Answer any FOUR questions, each in about two pages:**

**4 × 10 = 40 marks**

11. Give an outline classification of insects.
12. Explain biological control of insect pests.
13. Comment on any two insect pests of rice and add a note on their control.
14. Differentiate internal feeder from external feeder.
15. Explain the life history of mulberry silkworm.
16. Classify insecticides with an example.

## PART C

**Answer any TWO questions, each in about 4 pages**

**2 × 20 = 40 marks**

17. Write an essay on the methods of collection, mounting and preservation of insect.
18. What are the insect pests of stored grains and comment on the preventive and curative methods?
19. Write short notes on i) selection of bees and location for Apiary ii) Newton's beehive iii) enemies of honey bee.
20. Write an essay on integrated pest management.

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