

 **ST.JOSEPH’S UNIVERSITY, BENGALURU -27**

**M.Sc (ZOOLOGY) – II SEMESTER**

**SEMESTER EXAMINATION: APRIL 2023**

**(Examination conducted in May 2023)**

**ZO 8522 – ENTOMOLOGY**

**(For current batch students only)**

Time- 2 ½ hrs Max Marks-50

**This question paper contains 2 printed pages and four parts**

**Part A**

**Answer all the questions :**  **5x 1= 5**

1. Photoreceptor

2. Halteres

3. Fumigants

4. What are organochlorines?

5. Name two oligophagous pests

 **Part B**

**Answer all 5 of the questions :**   **5 x 2 = 10**

6. Paedogenesis

7. GMR

8. Role of insects in Forensic entomology

9. Give 4 characters of class Insecta

10. Entomophagous nematodes

**Part C**

**Answer ANY of the 3 questions : 3 x 5= 15**

11. What is the role of pheromones in insect management?

12. Japanese encephalitis

13. Explain the hormonal control of insect metamorphosis.

14. Discuss the success of biological control in agriculture

15. How do VOC’s play a role in insect plant interactions?

**Part D**

**Answer any two questions: 2 x 10= 20**

16**.** a)With a diagram, depict thefemale reproductive systems in insects (5m)

 b) What are organochlorines and carbamates (5m)

17. What is Integrated pest management? Emphasise the aims and write a note on

 the advantages and challenges farmers face with IPM.

18. a. Give the biology and management of any two pests of stored products.

 b. What are economically important insects? Explain any one.

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