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III Semester M.Sc. Degree (C.B.C.S.S. - OBE - Regular) Examination, October 2024 (2023 Admission) ZOOLOGY

Open Elective Course MSZGY03O03: Medical and Forensic Entomology

Time: 3 Hours

Max. Marks: 60

## PART - A

Answer any five of the following. Each question carries 3 marks.

 $(5 \times 3 = 15)$ 

- 1. What are the symptoms and prophylaxis for Japanese Encephalitis?
- 2. Define myiasis and name two insects that cause it.
- 3. Explain the role of habitat modification in vector management.
- 4. Briefly describe the life cycle of ticks and their role in disease transmission.
- 5. What is the function of forensic entomology in determining the place of death?
- 6. List two mosquito-borne diseases and their symptoms.

## PART - B

Answer any three of the following. Each question carries 6 marks.

 $(3 \times 6 = 18)$ 

- 7. Evaluate the role of sterile insect techniques in the control of insect vector populations.
- 8. Discuss the use of forensic entomology in crime scene investigations, particularly in determining the time of death.
- 9. Describe the importance of monitoring vector populations in disease control.
- 10. How can source reduction be effectively implemented in the management of flyborne diseases?
- 11. Explain the succession of Dipteran and Coleopteran species on a decomposing body and its significance in forensic investigations.

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## PART - C

Answer any three of the following. Each question carries 9 marks.

 $(3\times 9=27)$ 

- 12. Apply your understanding of vector surveillance techniques to design a comprehensive surveillance plan for monitoring mosquito populations in a
- 13. Analyze the role of forensic entomology in determining the time and mode of death in a homicide investigation, referring to specific case studies. 14. Discuss the epidemiology, symptoms and management strategies for Rocky
- Mountain spotted fever, with an emphasis on vector control. 15. Compare the environmental and mechanical control methods with biological
- control methods for managing vector-borne diseases, including their advantages
- 16. Apply your knowledge of forensic entomology to investigate a case where insects are used to determine the location of a crime scene, providing examples.