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- (b) Briefly discuss the control and preventive measures of sand fly. (5)

6. Write the short note on **any three** of the following (5,5,5)

- (a) General features of order Diptera and Siphonaptera
(b) Vectorial capacity and its determinants
(c) General structure and types of insect legs
(d) Adaptation in insects to act as vectors

(1000)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 5916 H

Unique Paper Code : 2234002006

Name of the Paper : Zoo GE-10; Insect Vector and Disease

Name of the Course : **B.Sc./B. Com/B.A. Theory Examination, May 2024**

Semester : IV, UGCF

Duration : 2 Hours

Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt **FOUR** questions in all.
3. **Question No. 1** is compulsory.
4. Draw well labelled diagrams wherever necessary.

1. (a) Define the following (4)

(i) Fecundity

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- (ii) Reservoir host
- (iii) Moulting
- (iv) Host specificity
- (b) Distinguish between the following (8)
 - (i) Primary host and Secondary host
 - (ii) Mechanical and Biological Vector
 - (iii) Hemimetabolous and Holometabolous insect
 - (iv) Vertical and Horizontal transmission of disease
- (c) Name the pathogen and vector of the following disease (3)
 - (i) Endemic typhus
 - (ii) Chikungunya
 - (iii) Plague

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- 2. (a) Discuss the life cycle of *Anopheles mosquito*.
Elaborate on the disease malaria caused by it. (10)
 - (b) Discuss the different types of mouthparts found in insects. (5)
- 3. (a) Explain the life cycle of *Musca domestica*. Write a note on its significance as important mechanical vector. (10)
 - (b) Write a note on different types of antennae present in insects. (5)
- 4. (a) Elaborate on any three diseases caused by Human louse and discuss their preventive and cure methods. (10)
 - (b) Differentiate between the Head, Body and Pubic louse. (5)
- 5. (a) Discuss two diseases caused by fleas as well as their preventive and cure methods. (10)