

Serial No.: 5851

Roll No.:

Unique Paper Code : 2234002006

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

Name of the Course : B.Sc/ B.Com/B.A. Theory Examination, May-June, 2026

Semester : VI(NEP-UGCF)

Duration : 2 Hours

Maximum Marks: 60

Instructions for Candidates

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

Q1. A. Give one line answer for each of the following: (4)

- a. Insects are also called as hexapods. Why?
- b. What is vectorial capacity?
- c. What are Halteres?
- d. Function of Antennae.

B. Differentiate between: (2x3)

- a. Eggs of *Anopheles* and *Culex*
- b. Mechanical and Biological Vector
- c. Sand flies and Houseflies

C. Match the columns: (5)

Column A

- (I) Butterfly
- (II) Silverfish
- (III) Housefly
- (IV) Fleas
- (V) *Aedes*

Column B

- (A) Dengue
- (B) Siphoning mouthparts
- (C) Mechanical vector
- (D) Siphonaptera
- (E) Apterygota

Q2. Explain any **three** insect mouth parts with well labelled diagram. (3x5)

Q3. a) Explain the life cycle and their identifying features of *Anopheles* mosquito. (5)

b) List any two diseases transmitted by *Aedes* mosquitoes. Discuss symptoms

of any two diseases and their control measures.

(10)

Q4. Why insects are so successful in this planet? Explain with reference to:

(3x5)

- a) Developmental characteristics
- b) Specificity of feeding
- c) Structural perfections

Q5. a) Explain medical importance of lice.

(5)

b) Discuss the control and prevention of diseases caused by fleas.

(5)

c) Discuss the role of housefly as mechanical and biological vectors in the transmission of diseases.

(5)

Q6. Write short notes on any **THREE** of the following:

(3x5)

- i) Types of Insect legs
- ii) Prevention and control of Mosquitoes
- iii) Types of Leishmaniasis
- iv) Vertical and Horizontal transmission