

5175

4

(b) Discuss the various management strategies that can be used against mosquitoes. (7)

6. Write short notes on **ANY THREE** of the following : (5,5,5)

(a) Leishmaniasis

(b) Housefly

(c) Types of insects antennae

(d) Host specificity

(e) *Xenopsylla cheopis*

(200)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 5175

J

Unique Paper Code : 2234002006

Name of the Paper : GE- Insect Vector and Disease

Name of the Course : **GE - Zoology Theory Examination, May-June, 2025**

Semester : VI (NEP-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.

P.T.O.

5175

2

1. (a) Define the following : (3)
 - (i) Zoonosis
 - (ii) Reservoir host
 - (iii) Vertical transmission
- (b) List the functions of the following : (3)
 - (i) Halteres
 - (ii) Spermatheca
 - (iii) Aedéagus
- (c) Identify the vector associated with the following diseases : (3)
 - (i) Plague
 - (ii) Cholera
 - (iii) Dengue
- (d) Distinguish between the following : (6)
 - (i) Exopterygota and Endopterygota
 - (ii) Prognathous and Hypognathous head
 - (iii) Carrier and Vector

5175

3

2. (a) Classify the *Anopheles* mosquito up to the order and draw well-labelled diagrams of both male and female mouthparts. (7)
- (b) With the help of a well-labeled diagram, describe the transmission of malaria. (8)
3. (a) What are the characteristic features of insects? Using a flowchart, classify class- Insecta up to order and add a note on the important features of any two medically important insect orders studied by you. (9)
- (b) Using appropriate examples and diagrams, describe the various types of insect legs. (6)
4. (a) Discuss the life cycle of head louse. Add a note on the differences between the head, body and pubic louse. (7)
- (b) Describe the pathogens and the diseases transmitted by louse. What are the various control measures? (8)
5. (a) Describe the life cycle of *Culex* mosquito with the help of diagram. Add a note on the various diseases transmitted by it. (8)

P.T.O.