

**BZYCT-143**

**ASSIGNMENT BOOKLET**

**Bachelor's Degree Programme**

**BSCG**

**(INSECT VECTORS AND VECTOR BORNE DISEASES)**

**Valid from 1<sup>st</sup> January, 2026 to 31<sup>st</sup> December, 2026**



**School of Sciences  
Indira Gandhi National Open University  
Maidan Garhi, New Delhi-110068**

**(2026)**

Dear Student,

Please read the section on assignments in the Programme Guide for Core Courses that we sent you after your enrolment. A weightage of 30 per cent, as you are aware, has been earmarked for continuous evaluation, **which would consist of one tutor-marked assignment** for this course. The assignment is in this booklet, and it consists of three parts, Part A and B. The total marks of all the parts are 100, of which 35% are needed to pass it.

### Instructions for Formatting Your Assignments

Before attempting the assignment please read the following instructions carefully:

- 1) On top of the first page of your answer sheet, please write the details exactly in the following format:

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**ROLL NO.:** .....

**NAME:** .....

**ADDRESS:** .....

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**COURSE CODE:** .....

**COURSE TITLE:** .....

**ASSIGNMENT NO.:** .....

**STUDY CENTRE:** .....                      **DATE:** .....

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**PLEASE FOLLOW THE ABOVE FORMAT STRICTLY TO FACILITATE EVALUATION AND TO AVOID DELAY.**

- 2) Use only foolscap size writing paper (but not of very thin variety) for writing your answers.
- 3) Leave 4 cm margin on the left, top and bottom of your answer sheet.
- 4) Your answers should be precise.
- 5) Complete each of Part A and Part B of this assignment separately, and **submit them together.**
- 6) The assignment answer sheets are to be submitted to your Study Centre as per the schedule made by the study centre. **Answer sheets received after the due date shall not be accepted.**  
**We strongly suggest that you retain a copy of your answer sheets.**
- 7) This assignment is **valid from 1<sup>st</sup> January, 2026 to 31<sup>st</sup> December, 2026.** If you have failed in this assignment or fail to submit it by December, 2026, then you need to get the assignment for the year 2027, and submit it as per the instructions given in the Programme Guide.
- 8) **You cannot fill the exam form for this course** till you have submitted this assignment.

We wish you good luck.

## ASSIGNMENT (Tutor Marked Assignment)

Course Code: BZYET-143  
Assignment Code: BZYET-143/TMA/2026  
Maximum Marks: 100

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**Note: Attempt all questions. The marks for each question are indicated against it.**

1. "Insects are diverse group of animals that are well adapted to different environments" Justify the statement. (10)
2. Write short notes on following: (10)
  - i) Mouthpart modifications in insects
  - ii) Types of antennae in insects
  - iii) Typical structure of insect wing
  - iv) Leg modification in insects
3. Differentiate between the following pairs of terms: (4 × 2  $\frac{1}{2}$  = 10)
  - i) Apterygota and Pterygota
  - ii) Mechanical and Biological vector
  - iii) Eggs of *Aedes* and *Anopheles* mosquitoes
  - iv) Sandflies and Houseflies
4.
  - i) Explain medical importance of lice. (5)
  - ii) Discuss prevention and control methods of *Culex* mosquitoes. (5)
5. List *five* diseases transmitted by *Aedes* mosquitoes. Discuss symptoms of any *two* diseases and their control measures. (10)
6. Define Integrated Vector Management (IVM). Explain different types of vector control methods of IVM. (10)
7.
  - i) Discuss the role of bugs as mechanical and biological vectors in the transmission of diseases. (5)
  - ii) Explain the life cycle of flea. (5)
8.
  - a) Describe the life cycle of *Anopheles* mosquito. (5)
  - b) Explain the epidemiology of malarial parasite. (5)
9. Write short notes on: (10)
  - a) Traps used for controlling houseflies
  - b) Cultural control of *Musca*
  - c) Chemical control of housefly
  - d) Myiasis
10.
  - i) Write the ecological factors favourable for the transmission of Kala-azar. (4)
  - ii) Illustrate the transmission of visceral leishmaniasis in human beings. (6)