

MZOE-001

ASSIGNMENT BOOKLET

M.Sc. (Zoology) Programme

(MSCZOO)

(PARASITOLOGY)

Valid from 1st January, 2026 to 31st 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 M.Sc. (Zoology). 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. The total marks for this assignment is 100, of which 40 marks 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:

ROLL NO.:

NAME:

ADDRESS:

.....

.....

COURSE CODE:

COURSE TITLE:

ASSIGNMENT NO.:

STUDY CENTRE: **DATE:**

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) Solve this assignment, and **submit the complete assignment answer sheets within the due date.**
- 6) The assignment answer sheets are to be submitted to your Study Centre within the due date. **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 1st January, 2026 to 31st December, 2026.** If you have failed in this assignment or fail to submit it till its validity, then you need to get the assignment for the next year and submit it as per the instructions given in the Programme Guide.
- 8) **You cannot fill the examination form for this course** until you have submitted this assignment.

We wish you good luck.

ASSIGNMENT

(Tutor Marked Assignment)

Course Code: MZOE-001
Assignment Code: MZOE-001/TMA/2026
Maximum Marks: 100

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

1. Write the detailed account of diagnostic tools used in disease manifestation. (10)
2. Enumerate the morphological adaptations in the parasites. (10)
3. Discuss the sexual cycle of *Plasmodium*. (10)
4. Discuss the pathogenicity of *Leishmania* spp. Write symptoms and distinct features of each manifestation. (10)
5. a). What is the role of the variant surface glycoprotein (VSG) family in African Trypanosomes survival against host immune system? (5)
b). What are the different approaches utilized by adult schistosomes to evade and overcome the immunological response of their hosts? (5)
6. Write a short note on humoral and cellular response in human body against adult hookworms. (10)
7. a). Briefly explain how *Entamoeba* gets attached to the mucosa and submucosa of the colon and caecum. (5)
b). Illustrate the life cycle of *Wuchereria bancrofti* with the help of a well labelled diagram. (5)
8. Why are dipteran flies considered significant agent of diseases in animals? Give names of any three such flies and describe their pathogenic effects in animals. (10)
9. Give a detailed plan of management and control of nematode parasites of plants. According to you, which strategy is the most effective in its control? (10)
10. Give a detailed plan of management and control of nematode parasites of plants. According to you, which strategy is the most effective in its control? (10)