

MZOE-001

ASSIGNMENT BOOKLET

M.Sc. (Zoology) Programme

(MSCZOO)

PARASITOLOGY

Valid from 1st January, 2025 to 31st December, 2025



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

(2025)

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, 2025 to 31st December, 2025. 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/2025
Maximum Marks: 100

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

1. Describe the course of parasitic infection along with the importance of each stage. (10)
2. Define hypersensitivity. Explain various types of hypersensitivity response in the host. (10)
3. Explain the erythrocytic cycle of *Plasmodium* in human beings. How is this different in different species of *Plasmodium*? (10)
4. Discuss the pathogenicity of *Leishmania* spp. Write symptoms and distinct features of each manifestation. (10)
5. Give an elaborate account for diversity and distribution of sleeping sickness in current scenario. (10)
6. Draw neat and labelled diagrams of: (10)
 - a) Tail end of the male *Ancylostoma duodenale*.
 - b) Buccal cavity of adult *Ancylostoma duodenale*.
7. Differentiate between the following pairs of terms: (10)
 - i) Acute amoebic dysentery and Chronic amoebic dysentery
 - ii) Invasive and Non-invasive trophozoites of *Entamoeba histolytica*
 - iii) Cell mediate immunity and Humoral immunity in *Entamoeba histolytica* infection
 - iv) Contact carriers and convalescent carriers
8. What role does *Wolbachia* play in the inflammatory reaction in filariasis? List the cytokines and immunoglobulins produced in human beings as an immunity response to filariasis. (10)
9. Why is plague also called 'Black Death'? Explain the transmission of disease in animals, different forms of the disease and its diagnosis. (10)
10. Write any five properties of an ideal antiparasitic drug treatment. (10)