

**2023**  
**M.Sc.**  
**Third Semester**  
 CORE – 09  
**ZOOLOGY**  
*Course Code: MZOC 3.11*  
 (Parasitology)

*Total Mark: 70*  
*Time: 3 hours*

*Pass Mark: 28*

*Answer five questions, taking one from each unit.*

**UNIT-I**

1. What are parasites? Describe the different types of parasites and the different types of hosts. Add a note on zoonoses. 2+9+3=14
2. Give a detailed description aspect of parasitic adaptations based on the morphological and physiological aspect. 14

**UNIT-II**

3. Highlight the important stages in the life-cycle of *Leishmania* with the help of flow-chart. Describe the morphology of the adult with a neat labelled diagram. 8+6=14
4. Write short notes on the following: 7×2=14
  - (a) Mechanism of drug resistance in *Plasmodium*
  - (b) Morphology and mode of infection in *Giardia*

**UNIT-III**

5. Discuss in detail the life-cycle, pathogenecity and treatment of Wucheria. Draw a neat labelled diagram to supplement your answer. 10+4=14
6. Write notes on the following: 7×2=14
  - (a) Plant nematodes
  - (b) Life-cycle of *Fasciola hepatica*

## UNIT-IV

7. Describe in detail the significance of chromatin diminution in *Ascaris*. 14
8. Write notes on the following:  $7 \times 2 = 14$
- (a) Parthogenesis and sex determination in *Schistosomes*
  - (b) Diploidy in *Trypanosoma*

## UNIT-V

9. What is industrial microbiology? Explain the different types of industrial processes used to produce economically important products. Briefly add a note on some important products.  $3+8+3=14$
10. What are biological weapons? Describe the dangers posed by biological weapons. Suggest measures to counter biological weapons.  $4+6+4=14$
-