

M. SC. (ZOOLOGY)

(MSCZOO)

Term-End Examination

December, 2025

MZOE-001 : PARASITOLOGY

Time : 2 Hours

Maximum Marks : 50

Note : (i) Attempt any **five** questions.

(ii) All questions carry equal marks.

1. (a) What is the difference between monogenetic and digenetic life cycle of a parasite ? Give examples. 2
- (b) Differentiate between Supplementary and Paratenic hosts. 2
- (c) List different stages of an infection by pathogen in the host. 2

- (d) Define hypersensitivity. Explain various types of hypersensitivity response to the host. 4
2. (a) Enlist the promising drug targets of malaria vaccine and state their functions. 5
- (b) Discuss the preventive measures to be taken against adult mosquitoes and their larval stages. 5
3. (a) List the serological tests that detect antibodies against *Leishmania* parasites in the patient. 3
- (b) How do cytokines and chemokines provide immunity in humans against *Leishmania* ? 2
- (c) What are *two* forms of *Leishmania* ? How are they different from each other morphologically and functionally ? 5
4. (a) What are the challenges for anti-trypanosome vaccine development ? 3

- (b) Explain the life cycle stage of *Schistosoma* in humans. 3
- (c) Describe the diagnostic processes for the identification of trypanosomes. 4
5. Write short notes on any *two* of the following : 2×5=10
- (a) Diagnosis of hookworm infection
- (b) Symptoms of trichinellosis
- (c) Morphological forms of *Entamoeba histolytica*
6. (a) Discuss the role of *Wolbachia* bacteria in the development and biology of filarial parasite. 4
- (b) Explain any *three* pathogenic effects caused by *Wuchereria bancrofti*. 6
7. Differentiate between any *two* of the following pairs : 2×5=10
- (a) Migratory parasitic and Endoparasitic nematodes

- (b) Attenuated and Toxoid vaccines against parasites
 - (c) Bubonic and Pneumonic plague
8. (a) Explain the ways to treat and prevent the dracunculiasis. 5
- (b) How does cell-mediated immunity play an important role in limiting invasive amoebic disease and its recurrence in the host ? 5

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