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MZOE-001

MASTER OF SCIENCE (ZOOLOGY)

(MSCZOO)

Term-End Examination

June, 2026

MZOE-001 : PARASITOLOGY

Time : 2 Hours

Maximum Marks : 50

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

(ii) *All questions carry equal marks.*

1. (a) What are obligate parasites ? Give any
two examples. 2

- (b) Differentiate between Definitive hosts
and Intermediate hosts. 2

- (c) List any *two* morphological adaptations
in the parasites 2
- (d) What is Premunition ? 2
- (e) Briefly explain the cell mediated
immunity. 2
2. (a) Describe the life cycle of *Plasmodium* in
a human host with a suitable diagram. 5
- (b) What are the most commonly
prescribed drugs for malaria treatment
and what are their mechanisms of
action ? 5
3. (a) Differentiate between amastigote and
promastigote forms of *Leishmania*. 5
- (b) Describe the mechanisms of Sodium
Antimony Gluconate (SAG) drug
resistance in *Leishmania*. 5

4. (a) Discuss the role of tse tse fly (*Glossina* species) in the transmission of *Trypanosoma*. 5
- (b) Describe the key differences between the adult male and female of *Ancylostoma duodenale*. 5
5. (a) List the symptoms caused by the migrating larvae of *Trichinella spiralis*. 5
- (b) Explain any *two* methods of the diagnosis of *Entamoeba histolytica*. 5
6. (a) Describe the role of endosymbiont, *Wolbachia* in the development and biology of filarial parasites. 5
- (b) Discuss the pathogenicity of guinea worm *Dracunculus* and its prevention strategies. 5

7. (a) Name the various biting and sucking lice which can infest domestic animals.

Highlight the diseases caused by them.

5

- (b) Differentiate between endoparasite and ectoparasite nematodes of plants. 5

8. Explain different types of vaccines against parasitic diseases. 10

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