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MZOE-001

M. SC. (ZOOLOGY)

(MSCZOO)

Term-End Examination

June, 2025

MZOE-001 : PARASITOLOGY

Time : 2 Hours

Maximum Marks : 50

Note : Attempt any ***five*** questions. All questions carry equal marks.

1. (i) What are reservoir hosts ? Give example. 2
- (ii) Give *one* example each of parasite transmitted through the following : 3
 - (a) Soil
 - (b) Food
 - (c) Insect

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- (iii) Briefly explain immunological adaptations in the parasites. 5
2. (i) Why is it difficult to formulate vaccine against malarial parasite ? Which vaccines have been formulated against malaria ? 5
- (ii) Explain sexual cycle of *Plasmodium* in mosquito. 5
3. (i) Why Visceral Leishmaniasis (VL) is called kala-azar ? What are the main features of VL ? 5
- (ii) Discuss stages—I, II and III in the life cycle of *Trypanosoma*. 5
4. Write short notes on any two of the following : 2×5=10
- (i) Circulation of *Ancylostoma duodenale* larvae in human body

(ii) Humoral and cellular responses in humans against adult hookworms

(iii) Acute infection stage of Schistosomiasis

5. Write differences between any *two* of the following : 2×5=10

(i) Ticks and Mites

(ii) Japanese Encephalitis (JE) and Eastern Equine Encephalitis (EEE)

(iii) Bubonic and Septicemic plague

6. Explain a detailed plan of management and control of nematode parasites of plants. 10

7. (i) Write any *five* properties of an ideal antiparasitic drug. 5

- (ii) Explain the significance of nanotechnology and quantum dots in the treatment of parasitic diseases. 5
8. (i) What are the different ways to treat and prevent the Dracunculiasis ? 5
- (ii) Which *two* approaches are used to design the drug against filarial worms ? Discuss briefly. 5

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