

M. SC. (ZOOLOGY) (MSCZOO)

Term-End Examination

December, 2024

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 endoparasites ? Give any two examples. 2
- (b) What is the difference between mechanical vector and biological vector ? Write one example for each. 2
- (c) What is Premunition ? 2
- (d) List any two morphological adaptations of parasites. 2

- (e) Write the differences between incubation period and prodromal period of an infection. 2
2. (a) Illustrate the life cycle of *Plasmodium* species with the help of a well labelled diagram. 5
- (b) Which drugs are commonly used to treat malaria ? Discuss their action. 5
3. (a) Explain the role of microbiota of sand fly in *Leishmania* development and transmission. 5
- (b) Elaborate on the way of evading the action of host immune system of *Leishmania*. 5
4. (a) Compare and contrast Stage I and Stage III of *Trypanosoma*. 5
- (b) Which preventive methods should be adopted for hookworm (*Ancylostoma*) infection ? 5

[3]

MZOE-001

5. Differentiate between the following pairs of terms : 5+5=10

(a) Invasive and Non-invasive trophozoites of

Entamoeba histolytica

(b) Acute and Chronic amoebic dysentery

(c) Brugian and Occult filariasis

(d) Sandflies and Tse-tse flies

6. (a) How does immunotherapy with 45 kDa antigen of *Trichinella spiralis* work in the murine model ? 2

(b) Describe any *four* methods by which filariasis can be diagnosed in human beings. Which is considered most accurate and why ? 5

(c) Discuss the pathogenicity of guinea worm (*Dracunculus*). 3

B-1451/MZOE-001

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[4]

MZOE-001

7. (a) Why is plague also called 'black death' ?

Explain the transmission of plague in animals and its different forms. 7

(b) How do root knot nematodes and cyst nematodes parasitize their hosts ? 3

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

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