

Total number of printed pages - 4

1A(Sem-1) ZLG 2/ITEP

2025

**ZOOLOGY**

Paper : ZLG0100204 - N

**(Parasitology)**

Full Marks : 45

Time : 2 hours

**The figures in the margin indicate full marks for the questions.**

1. Choose the correct answer : 1×5=5 .

(a) What is an organism carrying another organism to the host called ?

(i) Parasite

(ii) Vector

(iii) Pathogen

(iv) Bacteria

(b) What is a relationship in which larval development of one organism occurs inside or on the surface of another organism resulting in the death of the host called ?

- (i) Symbiont
- (ii) Commensalism
- (iii) Parasitoid
- (iv) Mutualism

(c) Vector for Kala Azar disease is

- (i) Louse
- (ii) Sand fly
- (iii) Bed bug
- (iv) House fly

(d) The larval form of *Taenia solium* is called.

- (i) *Cysticercus cellulosae*
- (ii) *Cysticercus bovis*
- (iii) Cysticercoid
- (iv) Hydatid cyst

(e) Where are Vampire bats found?

- (i) Australia
- (ii) Europe
- (iii) Central and South America
- (iv) Africa

2. Write short notes on : **(any five)** 2×5=10

- (a) Types of Parasites
- (b) Host-parasite relationship
- (c) Merozoites
- (d) Pathogenicity of *Trypanosoma gambiense*
- (e) Morphology of *Ascaris lumbricoides*
- (f) Copulatory bursa
- (g) Microfilaria
- (h) Treatment of *Trichinella spiralis*
- (i) Control of *Pediculus humanus*
- (j) *Xenopsylla cheopis*

3. Answer the following questions in brief :  
**(any four)** 5×4=20

- (a) Differentiate between ectoparasite and endoparasite.
- (b) Define a host and its types with suitable examples.
- (c) What is Leishmaniasis? What are the symptoms of Leishmaniasis?
- (d) Briefly describe the pre-erythrocytic cycle of *Plasmodium* species.
- (e) Describe the morphology of *Taenia solium*.

- (f) Write about the pathogenicity of *Wuchereria bancrofti*.
- (g) Write short notes on external parasites of domestic animals.
- (h) Describe the parasitic nature and adaptations of the Candiru.

4. Answer elaborately : **(any one)**  $10 \times 1 = 10$

(a) Describe the life cycle, pathogenesis, and laboratory diagnosis of *Ascaris lumbricoides*.  $4+4+2=10$

(b) Describe the morphology, life cycle, pathogenesis, diagnosis and prevention of *Trichinella spiralis*.  $2+4+2+2=10$

(c) Write the difference between ticks and mites. How are ticks and mites harmful to human? Suggest some methods to control of ticks and mites.

$3+3+4=10$

(d) Describe the morphology, habitat, feeding habits and behaviours of the vampire bat.  $2+2+4+2=10$