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( CBCS )

( 6th Semester )

**ZOOLOGY**

ELEVENTH PAPER

**( Parasitology and Immunology )**

*Full Marks : 55*

*Time : 2½ hours*

**( PART : A—OBJECTIVE )**

*( Marks : 20 )*

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

SECTION—A

*( Marks : 5 )*

Tick (✓) the correct answer in the brackets provided :

1×5=5

1. Tsetse fly (*Glossina*) is the vector of

(a) visceral leishmaniasis ( )

(b) *Falciparum* malaria ( )

(c) African sleeping sickness ( )

(d) cutaneous leishmaniasis ( )

**2.** Beef is the source of infection with

- (a) *Taenia saginata* ( )
- (b) *Taenia solium* ( )
- (c) *Fasciola hepatica* ( )
- (d) *Leishmania donovani* ( )

**3.** The infective stage of trematode parasites to the definitive host is called

- (a) sporocyst ( )
- (b) redia ( )
- (c) miracidium ( )
- (d) cercaria ( )

**4.** Conformational epitopes bind to antibody only in their

- (a) tertiary structure ( )
- (b) secondary structure ( )
- (c) primary structure ( )
- (d) nascent structure ( )

**5.** Asthma and allergies are mediated by

- (a) IgA ( )
- (b) IgE ( )
- (c) IgM ( )
- (d) IgD ( )

SECTION—B

( Marks : 15 )

Write notes on the following in 5 to 8 sentences each :

3×5=15

1. Trypomastigote

**OR**

Kala-azar

2. Neurocysticercosis

**OR**

Tegument of cestodes

3. Sexual dimorphism in nematodes

**OR**

Intestinal schistosomiasis

4. Professional phagocytes

**OR**

Live attenuated vaccine

5. V(D)J recombination

**OR**

Multiple sclerosis

**( PART : B—DESCRIPTIVE )**

( Marks : 35 )

*The questions are of equal value*

1. Describe the life cycle of *Leishmania donovani*.

**OR**

Illustrate the life cycle of *Plasmodium falciparum*.

2. Discuss the life cycle of *Taenia solium*.

**OR**

Delineate the life cycle of *Fasciola hepatica*.

3. Explain the life cycle of *Schistosoma mansoni*.

**OR**

Describe the life cycle of *Ascaris lumbricoides*.

4. Give a comparative account of humoral and cell-mediated immunity.

**OR**

Describe the types and general functions of cytokines.

5. Illustrate the molecular structure of IgG.

**OR**

Describe the structure and functions of MHC classes.

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