

2014

(6th Semester)

ZOOLOGY

Paper : ZL-XI

(Parasitology and Immunology)

Full Marks : 55

Time : 2 hours

(PART : B—DESCRIPTIVE)

(Marks : 35)

The questions are of equal value

1. Describe the life history and pathogenicity of *Trypanosoma brucei*.

Or

Give a detailed account on the life history and mode of infection of *Plasmodium falciparum*.

2. Describe the life history of *Echinococcus granulosus* with a well labelled diagram.

Or

Give a detailed account on the mode of infection and pathogenecity of the *Taenia solium*.

3. Give a detailed note on the parasitic adaptations in nematodes.

Or

Explain the life history of the *Schistosoma mansoni* with a well labelled diagram.

4. Write notes on antigen, epitope, hapten and interferon.

Or

What is innate immunity? How does it differ from the acquired immunity?

5. Explain the mechanism of the antigen-antibody interactions.

Or

Describe the structure of typical antibody.

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(PART : A—OBJECTIVE)

(Marks : 20)

The figures in the margin indicate full marks for the questions

SECTION—A

(Marks : 5)

Put a Tick (✓) mark against the correct answer in the brackets provided :

1×5=5

1. The secondary or intermediate host of *Leishmania donovani* is

(a) *Musca domestica* ()

(b) *Phlebotomus argentipis* ()

(c) *Culex* ()

(d) *Anopheles* ()

(2)

2. Apolysis is a process of shedding gravid proglottides in

- (a) *Taenia solium* ()
- (b) *Fasciola hepatica* ()
- (c) *Dugesia* ()
- (d) None of the above ()

3. Which of the following larvae is involved in the life cycle of the *Ascaris lumbricoides*?

- (a) Trochophore larva ()
- (b) Rhabditiform larva ()
- (c) Cercaria larva ()
- (d) Redia larva ()

VI/ZOO (xi)/569

(3)

4. Which one of the following antibody classes is most abundant in the blood serum?

(a) IgM ()

(b) IgG ()

(c) IgA ()

(d) IgE ()

5. Vaccine for measles is prepared from the

(a) live attenuated virus ()

(b) mutated virus ()

(c) killed virus ()

(d) None of the above ()

(4)

SECTION—B

(Marks : 15)

Write short notes on the following in 5 to 8 sentences each :
3×5=15

1. *Trypanosoma brucei*

VI/ZOO (xi)/569

(5)

2. Cestodiasis

3. Parasitic adaptations in trematodes

4. Epitopes

(8)

5. Hypersensitivity

14G—300/569

VI/ZOO (xii)