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( 6th Semester )

ZOOLOGY

Paper : ZL-XI

( **Parasitology and Immunology** )

Full Marks : 55

Time : 2½ hours

( 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*

Explain the important parasitic adaptations in cestodes.

3. Give an account on parasitic adaptations in nematodes.

*Or*

Describe the life cycle of *Ascaris lumbricoides*.

4. Give brief description of acquired immunity.

*Or*

Describe components of innate immunity.

5. Describe different types of immunoglobulin.

*Or*

Describe the structure and function of major histocompatibility complex.

★★★

**Subject Code : ZOO/VI/11**

**Booklet No. A**

Date Stamp .....

.....

**To be filled in by the Candidate**

DEGREE 6th Semester  
(Arts / Science / Commerce /  
..... ) Exam., **2017**

Subject .....

Paper .....

**INSTRUCTIONS TO CANDIDATES**

- 1. The Booklet No. of this script should be quoted in the answer script meant for descriptive type questions and vice versa.**
- 2. This paper should be ANSWERED FIRST and submitted within 45 minutes of the commencement of the Examination.**
- 3. While answering the questions of this booklet, any cutting, erasing, over-writing or furnishing more than one answer is prohibited. Any rough work, if required, should be done only on the main Answer Book. Instructions given in each question should be followed for answering that question only.**

**To be filled in by the Candidate**

DEGREE 6th Semester  
(Arts / Science / Commerce /  
..... ) Exam., **2017**

Roll No. ....

Regn. No. ....

Subject .....

Paper .....

Descriptive Type

Booklet No. B .....

*Signature of  
Scrutiniser(s)*

*Signature of  
Examiner(s)*

*Signature of  
Invigilator(s)*

**/432**

**ZOO/VI/11**

**2 0 1 7**

( 6th Semester )

**ZOOLOGY**

Paper : ZL–XI

**( Parasitology and Immunology )**

( PART : A—OBJECTIVE )

( Marks : 20 )

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

**SECTION—A**

( Marks : 5 )

- 1.** Put a Tick (✓) mark against the correct answer in the corresponding brackets : 1×5=5

(a) Epimastigote is found in

(i) Sand fly (     )

(ii) *Anopheles* mosquito (     )

(iii) Tsetse fly (     )

(iv) *Culex* mosquito (     )

( 2 )

(b) Neurocysticercosis is caused by

(i) *Taenia saginata* ( )

(ii) *Taenia solium* ( )

(iii) *Echinococcus granulosus* ( )

(iv) *Leishmania donovani* ( )

(c) Symptoms of schistosoma infections are produced by its

(i) sporocysts ( )

(ii) cercariae ( )

(iii) miracidia ( )

(iv) eggs ( )

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( 3 )

(d) The antigen-binding site of an antibody is called

(i) paratope ( )

(ii) epitope ( )

(iii) hapten ( )

(iv) immunogen ( )

(e) The multiple sclerosis is

(i) type-I hypersensitivity ( )

(ii) type-II hypersensitivity ( )

(iii) type-III hypersensitivity ( )

(iv) type-IV hypersensitivity ( )

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( 4 )

SECTION—B

( Marks : 15 )

- 2.** Write short notes on the following in 5 to 8 sentences each : 3×5=15
- (a) African sleeping sickness

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( 5 )

(b) Hydatid disease

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( 6 )

(c) Cercaria of *Schistosoma mansoni*

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( 7 )

(d) Interferon

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( 8 )

(e) Heavy chains of an immunoglobulin

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