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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 and pathogenicity of *Trypanosoma brucei*.

Or

Give a detailed account on the life cycle of *Plasmodium falciparum*.

2. Explain the life history, mode of infection and pathogenicity of *Echinococcus granulosus*.

Or

Give a detailed note on parasitic adaptations in cestodes.

3. Give an account of the parasitic adaptations in nematodes.

Or

Describe the life cycle and pathogenicity of *Schistosoma mansoni*.

4. What is innate immunity? How does it differ from acquired immunity?

Or

Write notes on hapten, epitope and interferon.

5. Explain the mechanism of antigen-antibody interactions.

Or

Describe the structure of typical antibody.

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Subject Code : ZOO/VI/11

Booklet No. A

Date Stamp

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To be filled in by the Candidate

DEGREE 6th Semester
(Arts / Science / Commerce /
.....) Exam., **2016**

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., **2016**

Roll No.

Regn. No.

Subject

Paper

Descriptive Type

Booklet No. B

*Signature of
Scrutiniser(s)*

*Signature of
Examiner(s)*

*Signature of
Invigilator(s)*

/348

ZOO/VI/11

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(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) Sand fly is the vector of the disease

(i) kala-azar ()

(ii) typhoid ()

(iii) Gambian fever ()

(iv) malaria ()

(2)

(b) Cysticercus larva of *Taenia solium* occurs in

(i) man ()

(ii) pig ()

(iii) sheep ()

(iv) snail ()

(c) Infective stage of *Ascaris* for humans is

(i) I stage juvenile ()

(ii) embryonated egg ()

(iii) II stage juvenile ()

(iv) fertilised egg ()

ZOO/VI/11/348

(3)

(d) Which of the following antibody classes is most abundant in the blood?

(i) IgM ()

(ii) IgA ()

(iii) IgG ()

(iv) IgE ()

(e) Type-I hypersensitive reaction is known as

(i) anaphylaxis ()

(ii) cytotoxic hypersensitivity ()

(iii) immune-complex hypersensitivity ()

(iv) delayed hypersensitivity ()

ZOO/VI/11/348

(4)

SECTION—B

(Marks : 15)

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

(a) Morphological types of *Leishmania*

(5)

(b) Taeniasis

ZOO/VI/11/**348**

(6)

(c) Rhabditiform larva

ZOO/VI/11/**348**

(7)

(d) Components of immune system

ZOO/VI/11/**348**

(8)

(e) Hypersensitivity

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