



Reg. No. : .....

Name : .....

**Fifth Semester B.Sc. Degree Examination, December 2018**  
**First Degree Programme Under CBCSS**  
**Zoology**  
**Core Course – VII**  
**ZO 1542 : IMMUNOLOGY AND MICROBIOLOGY**  
**(2015 Admission Onwards)**

Time : 3 Hours

Max. Marks : 80

*Instruction : Draw diagram wherever necessary.*

PART – A

I. Answer the following questions (in **one** or **two** sentences. **One** mark **each**).

- 1) Fermentor.
- 2) Opsonization.
- 3) *Plasmodium falciparum*.
- 4) Mitogens.
- 5) Principle behind blood typing.
- 6) Basidiomycota.
- 7) Human Leukocyte Antigen (HLA).
- 8) Phagocytosis
- 9) Affinity of antibody.
- 10) Bergey's manual.

**(10×1=10 Marks)**

PART – B

II. Answer **any eight** of the following (**Not** to exceed **one** paragraph, **each** carries **two** marks)

- 11) Candidiasis.
- 12) Lymph nodes.
- 13) Viroids.

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- 14) Anaphylaxis.
- 15) Differentiate exotoxin and endotoxin.
- 16) Secondary immunodeficiency.
- 17) Isotypic determinant.
- 18) Bt Cotton.
- 19) Major Histocompatibility Complex.
- 20) Firmicutes.
- 21) Functions of Immunoglobulin G.
- 22) Bursa of fabricius.

(8×2=16 Marks)

PART – C

III. Answer **any six** of the following (**Not to exceed 120 words, each carries 4 marks**)

- 23) Illustrate the structure of bacteriophage.
- 24) Humeral immune response.
- 25) What are the major characters of Protista ?
- 26) Type of graft rejection.
- 27) Complement system.
- 28) Write note on the organization of fungi, what are the major groups ?
- 29) Different types of autoimmune anemia.
- 30) What are the common bacterial diseases of man ?
- 31) Innate and adaptive immunity.

(6×4=24 Marks)

PART – D

IV. Answer **any two** of the following (**Each carries 15 marks**).

- 32) Elucidate the application of microbiology in environmental, medical and strategic fields.
- 33) Write an essay on the cells of immune system.
- 34) What are the major groups of eubacteria ?
- 35) Illustrate antigen antibody interactions.

(2×15=30 Marks)

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