

Roll No.7276560

94083

**B. Sc. Bio-Tech 5th Sem. (N. S.)
Examination – November, 2017**

IMMUNOLOGY

Paper : BT-503

Time : Three Hours]

[Maximum Marks : 40

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt five questions in all, selecting at least one Question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

1. Write the short notes on the following : 8 × 1

~~(a)~~ Serum

~~(b)~~ Receptor

(c) Memory cell

(d) Antigenic determinant

~~(e)~~ Complement

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~~(f) MHC~~

~~(g) Adjuvant~~

~~(h) IPV~~

UNIT - I

2. Describe primary & secondary organs related to the mammalian immune system. 8
3. Write the notes on any *two* : 4 × 2
- (a) Molecular structure of antibody
 - (b) B-Lymphocytes
 - (c) T-Cell Receptor

UNIT - II

4. Describe regulation of immunoglobulin gene expression in details. 8
5. Write the notes on any *two* : 4 × 2
- (a) Clonal selection theory
 - (b) Immunological memory
 - (c) Genetic basis of Antibody diversity.

UNIT - III

6. Describe the causes, symptoms, transmission and treatment of AIDS in details. 8
7. Write the notes on any *two* : 4 × 2
- (a) Antigen processing

- (b) Auto-immunity
- (c) Immunity to infection

UNIT - IV

8. Describes various immune-diagnosis methods can be uses for infectious diseases. 8

9. Write the notes on any *two* : 4 × 2

- (a) Recombinant Vaccine
 - (b) Passive immunization
 - (c) Cytokines
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