



**AF-3551**

M.Sc. (Final)  
Term End Examination, 2017-18

**MICROBIOLOGY**

Paper - I

Fundamentals of Immunology

*Time* : Three Hours]      [*Maximum Marks* : 100

[*Minimum Pass Marks* : 36

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**Note** : Answer **all** questions. All questions carry equal marks.

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**Unit-I**

1. Describe in detail the host-parasite relationship and its consequences.

**OR**

Differentiate between innate immunity and an acquired immunity. Describe in detail the organs and molecules involved in innate immunity.

( 2 )

**Unit-II**

2. Describe in detail the structure, types, properties and functions of antibodies.

**OR**

Describe in detail the structure, types, properties and functions of antigens.

**Unit-III**

3. Describe in detail the immunodiffusion assay and its types.

**OR**

Write short notes on the following :

- (a) Immunofluorescence
- (b) Radioimmunoassay

**Unit-IV**

4. Write short notes on the following :
- (a) Structure of MHC-I and MHC-II
  - (b) Types of grafts

**OR**

Describe in detail the autoimmunity, its types along with suitable examples.

( 3 )

**Unit-V**

5. Describe in detail antibody dependent cell cytotoxicity.

***OR***

Describe in detail immune complex mediated reactions.

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