

AE-795

M.Sc. (Final)

Term End Examination, 2016-17

MICROBIOLOGY

Paper - I

Fundamentals of Immunology

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

[Minimum Pass Marks : 36

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

Unit-I

1. Describe in detail the organs involved in immune system along with their well labelled diagram.

OR

Describe in detail the immunohaematology and various complications that arises due to mismatch of blood groups and Rh factors.

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(Turn Over)

(2)

Unit-II

2. Describe in detail the various properties of complement system with special emphasis on its alternative pathway.

OR

Describe in detail the various types of vaccines. What is the relationship between vaccine and memory cells of the body ?

Unit-III

3. Describe in detail the various forms of precipitation reactions. What do you understand by zone of equivalence ?

OR

Write notes on the following :

- (a) ELISA and its applications
- (b) Complement fixation

Unit-IV

4. Describe in detail the structure of MHC-1 and MHC-2. How does various T cell population interacts with MHC-1 and MHC-2 molecules, along with their consequences ?

OR

(3)

Describe in detail the graft transplantation, in terms of its types and its mechanism of acceptance or rejection.

Unit-V

5. Describe, in detail, the mechanism of anaphylaxis along with suitable diagram.

OR

Write notes on the following :

- (a) Arthus Reaction
(b) Functions of Lymphokines
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