

2021
B.A./B.Sc. (General) Third Semester
Microbiology
MIC-302: Introductory Immunology – I

Time allowed: 3 Hours

Max. Marks: 33

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit.

x-x-x

I. Answer the following:-

- a) How cell mediated immune response is induced.
- b) Enlist different types of antigen-antibody reactions.
- c) What are plasma cells?
- d) Enlist various types of antigen presenting cells.
- e) Differentiate between humoral and cell mediated immunity.
- f) Enlist different types of antibodies. (6x1½)

UNIT – I

II. Define phagocytosis. How neutrophils and macrophages induce an immune response on exposure of a pathogen. (6)

III. Write short notes on:-

- a) Types of immunity.
- b) Physical and chemical barriers of nonspecific immunity. (2x3)

UNIT – II

IV. Describe the variable and constant regions of an antibody. What are their biological functions? (6)

V. Differentiate between different types of antibodies. (6)

UNIT – III

VI. How T and B cells interaction induces an immune response. (6)

VII. Give an overview of cytotoxic and killer T cells. (6)

P.T.O.

(2)

UNIT – IV

VIII. Explain the procedure and applications of complement fixation test. (6)

IX. Write principle, procedure and applications of Immunodiffusion test. (6)

x-x-x