

2053

M.Sc. (Bio-Informatics) Second Semester
MBIN-8010: Immunology and Cell Biology

Time allowed: 3 Hours

Max. Marks: 60

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting atleast one question from each Unit.

X-X-X

I. Answer briefly:-

- a) Mast cells
- b) Langerhan cells
- c) Type I hypersensitivity
- d) MHC restriction
- e) CDR
- f) IgG
- g) KKXX

(12)

UNIT - I

II. Write a note on generation of antibody diversity.

(12)

III. a) Write a note on the granulocytes.

b) Diagrammatically explain the process of phagocytosis.

(2x6)

UNIT - II

IV. a) Discuss the generation of T Cell response.

b) Explain the mechanism of NK cell mediated lysis.

(7,5)

V. a) Discuss the consequences of Immunosuppression.

b) Write a note on generation of monoclonal antibodies.

(2x6)

UNIT - III

VI. a) Discuss the transport of ions across the plasma membrane.

b) Explain the secretory pathway for protein targeting.

(2x6)

VII. a) Discuss Cell cycle and its regulation.

b) Discuss the mechanism of P13K pathway.

(7,5)

X-X-X