1058
B.Sc. (Hons) Bio-Informatics
Sixth Semester
BIN-6003: Immunology

Time allowed: 3 Hours
Max. Marks: 60

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

x-x-x

I.   Attempt the following:-

a) Give the functions of IgE and IgG.

b) Differentiate between functions of helper and suppressor T-cells

c) What is an epitope?

d) Give full forms of ELSIA and MHC.

e) Name any two diseases for which humans are vaccinated before 5 years of age.

f) Name two autoimmune diseases. (6x2)

UNIT – I

II. a) Disuses the humoral immune response?

b) Write a note on various types of antibodies and their functions. (8,4)

III. a) Differentiate between allotypes and idiotypes. (4)

b) Write notes on the following

i) Class switching in antibodies

ii) Immunologic memory and its implications (2x4)

IV. a) Discuss Cell mediated immune response.

b) Draw a well labeled diagram of an immunoglobin? (8,4)

UNIT – II

V.   Write notes on the following:-

a) Recombinant vaccines (giving suitable example)

b) Active and passive immunization (6,6)

P.T.O.

(2)

VI. a) Discuss the technique of ELISA.

b) Write a note on any one autoimmune disease giving its cause and pathophysiology.

(6,6)

VII. a) Compare and contrast MHC class I and class II.

b) Write a note on RIA?   (8,4)

x-x-x