Exam.Code:0044

Sub. Code: 1017

2071

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. Answer briefly:a) Heavy chain b) CDR c) Idiotype d) β₂ microglobulin e) DNA vaccine f) HIV g) Peptide binding pocket of MNC - II $(8x1\frac{1}{2})$ h) Helper T cells. UNIT-I II. Write a note on the components of the mammalian immune system. (12)a) Explain the process of antibody affinity maturation and its significance. III. b) Discuss the generation of immunology memory. (2x6)IV. a) Explain in detail the generation of cellular immune response. b) Discuss any two reasons by which antibody diversity is generated. (2x6)UNIT - II ٧. a) Write a note on any one organ associated and systemic autoimmune disorder. (8,4)b) Discuss the role adjuvants in vaccination. Describe the principle, technique and applications in indirect ELISA. (12)VI.

(2)

VII. a) Explain the characteristics of the peptides binding of MNC class - I.

b) Write a note on DNA vaccines.

(2x6)

x-x-x