Exnm.Code:0044 Sub. Code: 1017

2054 B.Sc. (Hons) Bio-Informatics Sixth Semester BIN-6003: Immunology

Time allowed: 3 Hours

Max. Marks: 60

(2x6)

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

- X-X-X Answer the following briefly:-1. n) CDR b) Class switching c) Cytokines d) AIDS e) TCR f) Immunologic memory g) Allelic exclusion h) Humoral immune system (8x1½) UNIT - I 11. a) Write an overview on the components of the innate immune system. b) Draw a well labelled diagram of antibody molecule. (2x6)III. a) Discuss the process of antibody affinity maturation. b) Explain the different types of T-cells. (2x6)IV. a) Differentiate between allotype and idiotype. b) Elaborate on the clonal selection theory. (2x6)UNIT - II a) Discuss the role of adjuvant in vaccines with examples. ٧. b) Explain the applications of ELISA. (2x6)a) Elaborate on the antigen processing by Class - I MHC. VI. b) Discuss any bacterial vaccine. (2x6)
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VII.

a) Write any organ specific autoimmune disorder.

b) Discuss the properties of class - II MHC antigens.