

Q.2 Answer/attempt **any seven** from the following: (14 marks)

- a) Explain the structure of TLR.
- b) What is endocytic pathway of antigen processing?
- c) Write on role of eosinophil.
- d) What is the role of TdT?
- e) What is light chain editing during B cell maturation?
- f) How C3 convertase of alternative pathway is formed?
- g) How animal model for multiple sclerosis is developed?
- h) Explain BCR complex.
- i) What are isografts?

Q.3 A. Discuss how MBL can lead to cell lysis using complement system. (06 marks)

B. Discuss in detail TLRs and their role in innate immune system. (06 marks)

OR

B. Discuss spleen as primary lymphoid organ. (06 marks)

Q.4 A. Discuss effector functions of different Ig molecules. (06 marks)

B. Give an account of different precipitation reactions. (06 marks)

OR

B. Discuss steps leading to variable region (V-(D)-J) formation. (06 marks)

Q.5 A. Discuss cytosolic pathway of antigen processing. (06 marks)

B. Discuss process of B cell maturation in bone marrow. (06 marks)

OR

B. Discuss cell mediated cytotoxicity. (06 marks)

Q.6 A. Discuss Type III hypersensitivity reaction. (06 marks)

B. Write on mechanism involved in allograft rejection. (06 marks)

OR

B. Discuss in detail mechanisms leading to immune tolerance. (06 marks)

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