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- 1. Attempt all questions.
- 2. All questions carry equal marks.
- 3. Draw neat labeled diagrams wherever necessary.
- 4. For Q 2, Q 3 and Q 4 attempt A and B OR C and D.

Q 1 Do as directed (Any fifteen)

15

- 1. Name the largest lymphatic vessel.
- 2. Name the macrophage like cell in the lung
- 3. Name the congenital birth defect in humans in which thymus fails to develop
- 4. Define naive cells
- 5. Which cell develops into macrophage after settling in tissues?
- 6. Name the C3 convertase in the lectin complement pathway.
- 7. Give the significance of factor H.
- 8. State true / false: HLA codes for MHC.
- 9. What is ITAM?
- 10. State true/ false: Invariant Chain is involved in the endocytic pathway for antigen processing.
- 11. Give an example of a co-receptor of a T cell.
- 12. State true/ false: T helper cells secrete IL2 after activation.
- 13. State true/ false: TCR is a homodimer made of alpha chain.
- 14. Define: Thymus Independent Antigens
- 15. Give one example of substrate used in ELISA.
- 16. Give One Example of complete Antibodies.
- 17. When was radio immunoassay developed?
- 18. What is the full form of ELISA?
- 19. State true/false: In a flow cytometer the particles are analyzed all at a time.
- 20. molecules are manufactured by the body that help fight antigens
 - a) antigen
 - b) antigen enzyme conjugate
 - c) antibody enzyme conjugate
 - d) antibody

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Q 2	A Give a brief account on lymph node and spleen.	0
Q 2		0.
	OR	U
Q 2 (C Write a note on regulation of the complement system.	08
Q 2 I		07
Q 3 A	experimental evidence proving Self MHC restriction of T-cell.	08
Q 3 B	Discuss the cytosolic pathway for Antigen processing and presentation.	07
	OR	
Q 3 C	Discuss the process of activation of T cells.	08
Q 3 D	Describe the structure of BCR with its co-receptors.	07
Q 4 A	Describe Immunoprecipitation reactions with suitable example	08
Q 4 B	What are the applications of flow cytometry in immunodiagnostics?	07
Q4C	What is a cross-reactivity in immunology?	
Q 4 D	Explain complement fixation test.	08
	se one as miller of substitutions at let 49 to	07
Q 5	Write short note on any three of the following	ez 181
a)	Mononuclear phagocytes	15
b)	Complement Deficiencies	
c)	B- cell maturation	
d)	Direct ELISA	
e)	Blood Grouping	