BT

Q.P. Code:

2 1/2 Hours

Total Marks: 75

- 1. Attempt all questions.
- 2. All questions carry equal marks.
- 3. Draw neat labeleddiagrams wherever necessary.
- 4. Use of log tables and non-programmable calculator is allowed.
- 5. For Q 2, Q 3 and Q 4 attempt A and B OR C and D.

Q1 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. Give an example of a cytokine secreted by macrophage.
- 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 co receptor of 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. What is chromogenic substrate?
- 16. What is agglutination titre?
- 17. Southern Blotting technique is used for detection of
 - a. Proteins
- b. DNA fragments

- c. mRNA
- d. None of above
- 18. What does ELISA stand for?
- 19. What is Prozone Effect?
- 20. Define Precipitation reaction

Q 2 B	Describe the lectin complement pathway in detail.	6.7
	OR	
Q 2 C	Give a brief account on mononuclear phagocytes and add a note on	08
	phagocytosis	
Q 2 D	Describe the mucosa associated lymphoid tissue in brief	07
Q3A	Write a note on the experimental evidence proving Self MHC restriction of T-	08
	cell.	
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	Diagrammatically explain double immunodiffusion	08
Q 4 B	Explain ELISPOT Assay	07
	OR	
Q 4 C	What is Flow Cytometry	08
Q 4 D	Describe Immunoprecipitation reactions with suitable example	07
Q 5	Write short note on any three of the following	15
a	T lymphocytes	
b	Complement Deficiencies	
c	B- cell maturation	
d	Precipitation Reactions	
e	Western Blotting	