	/5 Marks
NO	TE:
	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.
	amengale are of the off that I had a half to ornicing on minigral. At 9
0.1	© 35 Write a note on how 1 to cells neith in 15-call neithandalist
Q1	Do as directed (Any fifteen)
1.	Tc cell contain surface receptor
2	(CD4,CD8, MHC, CD48)
2.	Give one example of a phagocytic cell.
3.	Write one function of the NK cell.
4.	Monocyte become mature and differential into
5.	(macrophage,t cells,nerve cell, b cell)
5.	Basophils can stain byblue dye.
6.	(methylene,bromothymol, safranin,crystal)
7.	Give any one role of plasma B, cells.
/ .	Find the correlation- B-cell activation: Bone marrow:: T cell activation:
8.	(Thymus, Spleen, Lymph nodes, Bone marrow) Name correceptors present in B cell.
9.	Name any two invariant chains present in CD3.
10.	Which type of cells expressed the class and in the class
	Which type of cells expressed the glycoprotein encoded by Ciass I MHC genes?
11.	State true or false- Class II MHC molecules contain two different polypeptide chains,
	a 33-kDa α chain and a 28-kDa β chain, which are associated by noncovalent
12.	interactions.
13.	What is proteasome?
14.	How many amino acids long peptides can bind to MHC class II?
	What is the full form of ELISA?
15.	Fluorochrome-labeled cells are viewed under a microscope.
1.0	(fluorescence, dissection, compound, light)
16.	The most commonly used luxogenic substrate in chemiluminescence is
1.00	(Luminol, chromogen, fluorescein, Phycoerythrin)
17.	What is precipitin reaction?
18.	The most commonly used Chromogenic substrate is
10	(tetramethylbenzidine TMB, Luminol, fluorescein, Phycoerythrin)
19.	What do you mean by agglutinin.
20.	Most commonly used Fluorochrome are

Q 2A Write a note of thymus with the help of a diagram.

(fluorescein, tetramethylbenzidine TMB, Luminol, indolyl)

Q 2B	Explain granulocytes and agranulocytes cells in details	07
	OR	
Q2C	Give an account on the lectin pathway.	08
Q 2D	Discuss regulations of complement system.	07
Q 3A	Explain the structure of MHC class I with the help of a diagram.	08
Q3B	Write a note on how TH cells help in B-cell activation.	07
	OR CONTROL OF THE CON	
Q3C	Discuss the detailed process of endocytic pathway of exogenous antigens processing.	08
Q3D	Explain the peptide interaction with MHC class I.	07
Q 4A	Explain in detail about indirect ELISA	08
Q4B	Diagrammatically explain about two dimensional immunoelectrophoresis.	07
	OR SALES SAL	
Q4C	Explain western blotting with diagrams.	08
Q 4D	Explain in detail of working of flow cytometry.	07
Q5	Write short note on any three of the following	15
a	Lymphoid progenitors cells	
b	Hematopoiesis	
c	T-Cell coreceptors.	
d	Immunoelectrophoresis.	
e	Chemiluminescence.	
	14.7、CA (4.76) (1.76)	

SEM III

SUB-IMMUNOLOGY 2 1/2 Hours

VCD/

75 Marks