example.

CRCS Schama

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USN			15BT53	
		Fifth Semester B.E. Degree Examination, Dec.20	017/Jan.2018	
		Immunotechnology		
Tin	ne:	3 hrs.	Max. Marks: 100	
			Max. Warks. 100	
		Note: Answer-FIVE full questions, choosing one full question fr	om each module.	
		Module-1		
1	a.		m. (08 Marks)	
	b.	Discuss the relationship between Ig structure of all five classes of	intibody and explain the	
		functions of each type.	(08 Marks)	
		OR		
2	a.	Define Immunity. Compare and classify immunity in various parar	neters. (08 Marks)	
	b.	Write short notes on :		
		i) Adjuvants ii) Epitope.	(08 Marks)	
		Module-2		
3	a.	Define Cell mediated immunity. Outline the method involved in t	the clearance of target cell	
	b	by cytotoxic T – lymphocytes. (08 Mark		
	υ.	Construct a Kappa light chain combination of your choice recombination mechanism of Kappa light chain genes.	and depict a detail the (08 Marks)	
		The state of the s	(vo marks)	
		OR		
4	a.	Schematically represent the conversion of naïve B cells to activated mediated immune response.		
	b.	Term endogenous antigen. Delineate cyto solic antigen processing	pathway. (08 Marks)	
		P 2	()	
5	0	Disayes the mechanism of attention and a second of the sec	T T	
3	a.	Discuss the mechanism of activation and regulation of classic pathway.	al complement activation (08 Marks)	
	b.	Distinguish between primary and secondary immune – deficiency	and explain SCID (Severe	
		Combined Immuno Deficiency) as an example.	(08 Marks)	
		OR		
6	a.	Mention the causes of autoimmunity and explain the experimental	animals used for its study.	
	1.		(08 Marks)	
	b.	Define Hypersensitivity. Explain the 4 types of hyper sensitivity in	detail. (08 Marks)	
		Module-4		
7	a.	Describe the role of MHC in graft rejection.	(08 Marks)	
	b.	Write short notes on:		
		i) HLA typing ii) Tumor Antigens.	(08 Marks)	

(08 Marks)

(08 Marks)

OR a. Explain Immune Suppressive therapy, with suitable example.
b. Define Immunization. List the different types of vaccination available. Explain one with an

Module-5

- 9 a. Write short notes on:
 - i) Catalytic Antibodies.

(04 Marks)

ii) Applications of stem cells in immunology.

(04 Marks)

b. Explain Hae magglutination. Illustrate the multiple antigens that may occur on the RBC surface in ABO system. Add a note on its applications. (08 Marks)

OR

- 10 a. Outline the principle and procedure of FACS. Add a note on its application. (08 Marks)
 - b. Explain the characteristic features of Ag Ab interactions, with suitable examples.

(08 Marks)