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[Ťhis	question paper conta	ins 3 printed pa	iges.]
1455		Your Roll	No
	B.Sc. (1	Hons.) / III	. <b>A</b>
	MICROBIOLO	OGY - Paper X	II .
	(Imm	unology)	
	(Admissions of	2004 & onwar	ds)
Time :	3 Hours	Maximi	ım Marks: 60
	(Write your Roll No. on receipt of th	on the top imm	•
	Attempt any All questions of	Five questions carry equal ma	
1. (	a) Write the character diseases:-	ristic features o	f the following
	(i) Chediak-Higas	shi Syndrome	• .
	(ii) Congenital ner	utropenia	
	(iii) Rheumatoid ai	rthritis	
	(iv) Hashimoto's th	nyroiditis	(1×4=4)
(1)	b) How does cytosolic occur ?	pathway of ant	igen processing

(c) Compare an isograft and allograft.

(2)

P.T.O.

(d)	Explain	the	structure	of	TCR-CD3	complex.	(3	)
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- 2. Differentiate between the following (any four):-
  - (i) First and second set of graft rejection
  - (ii) T-cell and B-cell activation
  - (iii) Class I MHC and Class II MHC
  - (iv) Papain and Pepsin digestion of Antibodies
  - (v) Primary and Secondary Immune response
    (3×4=12)
- 3. Write short notes on any three:-
  - (i) Inflammation
  - (ii) Dendritic cell
  - (iii) Allelic exclusion
  - (iv) Immunoglobulin superfamily .
    - (v) ELISPOT

 $(4 \times 3 = 12)$ 

- 4. (a) Write the functions of the following:-
  - (i) B7 molecule
  - (ii) RSS
  - (iii) M cells
  - (iv) C5a

 $(1 \times 4 = 4)$ 

	(b) Comment on the use of TIL and LAK cells at the rapeutic agents for Cancer.	
		2)
	(c) Describe the mechanism of destruction of targ	
	cells by CTLs.	4)
	(d) Describe the mode of action of adjuvants. (2	2)
5.	(a) Elaborate the following:-	
	(i) GVHD	
	(ii) SCID	
	(iii) ARAM	
	(iv) CDRS (1×4=4	4)
	(b) Explain the alternate pathway of compleme	nt
	activation. (4	4)
	(c) Draw a well labelled diagram of internal structu	re
	of Lymph Nodes.	4)
6.	(a) Explain type I hypersensitivity.	4)
	(b) Write the principle of	
	(i) MLR (ii) FACS (2×2=2	4)
	(c) What is self-MHC restriction?	2)
	(d) What are T dependent and T independen	nt
	A	2)
	(400)***	+

