Name:		<b>7/</b> 110=0		
Enrolme	nt No:	<b>OILS</b>		
		robial physiology and Immunology MB7033O  SECTION A  rry 1.5 Marks e the statement / Select the correct answer(s)  Marks  CO1  Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illowing cells produced both Class I and II MHC molecules Illow		
Course Name : Microbial physiology and Immunology Time: 180		nin		
	Question will carry 1.5 Marks	etetics Semester: I y and Immunology Time: 180min Max. Marks: 100  SECTION A  Select the correct answer(s)  Marks  duced both Class I and II MHC molecules  CO1  1.5  CO2  1.5  h its significance  1.5  CO3  CO5  1.5  CO5  1.5		
2. Instru	iction: Complete the statement / Select th	he correct answer(s)		
			Marks	
Q1	5 1	th Class I and II MHC molecules		CO1
	a. Mast cell		4.5	
	b. Basophil		1.5	
	<ul><li>c. Macrophages</li><li>d. RBC</li></ul>			
Q2	NK cell destroys			CO2
Q2	a. Bacterial cells			CO2
	b. Altered self-cells		1.5	
	c. Both a. and b.			
	d. None of the above			
Q3	Define "Super-antigen" with its sign	nificance	1.5	CO3
Q4	Both T <sub>H</sub> cells do not have			CO5
	a. TCR			
	b. Class I MHC		1.5	
	c. Fc			
	d. CD3			
Q5	CD1 molecule binds to			CO5
	a. Lipid			
	b. Polypeptide		1.5	
	c. Polysaccharide			
0.6	d. Amino acids			GO.
Q6	All non-self-antigens are also immunoger	1.	1.5	CO <sub>5</sub>
	a. True b. False		1.5	
07		antigon		COS
Q7	a. True	ganugen	1.5	COS
	b. False		1.3	
Q8	Fc receptors detects			CO1
<b>4</b> 0	a. Antibody			
	b. Antigens		1.5	
	c. IL 4			
	d. Interferon			

<b>Q</b> 9	Draw how heavy chain immunogens are arranged.	1.5	CO2
Q10	In which chromosome in human the light chain genes are found?	1.5	CO2
Q11	Must cells release		CO2
	a. Histamines		
	b. Interleukins	1.5	
	c. Interferons		
	d. Kinins		
Q12	The main function of Follicular dendritic cells is		CO4
	a. Activating T <sub>H</sub> cells		
	b. Presenting antigen to T-lymphocytes	1.5	
	c. Selection of B-cells		
	d. Selection and activation of NK cells		
Q13	Average weight of thymus increased with age		CO1
	a. True	1.5	
	b. False		
Q14	What is the final product of humoral immune response		CO4
	a. Interferon		
	b. Antibody and memory B cells	1.5	
	c. Both of (a) and (b)		
	d. Plasma cells		
Q15	Choose the right statement		CO3
	a. IgG can pass the placenta		
	b. IgM can bind only two antigens	1.5	
	c. IgE is found in all the mucosal secretion		
	d. Exact function of IgA is still unknown		
Q16	Which of the following cells is responsible for ADCC?		CO1
	a. Ig M		
	b. Ig G	1.5	
	c. Ig A		
	d. Ig D		~~~
Q17	The end products of cell-mediated immune response is		CO3
	a. Macrophages		
	b. Antibody	1.5	
	c. T-lymphocytes		
0.10	d. NK cells		904
Q18	A vaccine is used to improve the		CO4
	a. Non-specific immune response	4 =	
	b. Cell-mediated immune response	1.5	
	c. Humoral immune response		
0.15	d. All of the above		COS
Q19	Plasma therapy is an example of		CO3
	a. Passive immunization		
	b. Active immunization		
	c. Both (a) and (b)		
	d. None of the above		

Q20	What is the significance of Gnotobiotic animals in immunology?	1.5	CO4
	SECTION B		
1. Each	question will carry 5 marks		
	ruction: Write short / brief notes		
Q21	a. Where you will find M-cell, Nurse cells, and Kuffer cells?	3+2=5	CO4
	b. Are antigens and immunogens the same?	3+2=5	
Q22	Draw class II MHC and marked different parts	5	CO2
Q23	a. Compare T cells and B-cells with respect to their antigen detection	3+2=5	CO3
	b. Is allergen an immunogen? Explain.	3+ <b>2</b> -3	
Q24	a. Write a short note on different allergic reactions.	4+1=5	CO3
	b. Write the name of two autoimmune diseases	411-3	
	SECTION C		
	Question carries 15 Marks.		
	ruction: Write long answer.	1	
Q25	A young girl who had never been immunized to tetanus stepped on a rusty nail and		CO4
	got a deep puncture wound. The doctor cleaned out the wound and gave the child an		
	injection of tetanus antitoxin		
	a. Why was antitoxin given instead of a booster shot of tetanus toxoid?		
	b. If the girl receives no further treatment and steps on a rusty nail again 3 years		
	later, will she be immune to tetanus? Explain your answer.		
	c. What are the advantages and disadvantages of using attenuated organisms as vaccines?		
Q26	Suppose a patient is admitted into a hospital with acute viral infections. Doctor asks		CO2
Q20	you to do some quick antibody test by collecting samples from throat and nasal		CO2
	cavity.		
	Cavity.		
	a. Describe a test that you will perform in the laboratory?	15	
	b. How the virus infected cell will be removed from the system?		
	c. What types of chemokines will be removed by virus-infected cells.		
	SECTION D	l	
1. Each	Question carries 10 Marks.		
	ruction: Write long answer.		
Q27	Write short note on		CO2
<b>~</b> ='	a. Monoclonal antibody		
	b. ELISA	4+3+3= 10	
	c. Thymus		
Q28	a) What is MAC?	2.6.2	CO5
	b) Describes classical pathway of MAC formation.	2+6+2=	
	c) Define apoptosis and necrosis.	10	