Regist	ration no:	
Total Number of Pages: 02 B.Tecl		
PBT5J00		
210	5 th Semester Regular Examination 2017-18 210 Immunology and Immunotechnology BRANCH: BIOTECH Time: 3 Hours Max Marks: 100 Q. CODE: B191	210
Answer Question No.1 and 2 which are compulsory and any four from the rest. The figures in the right hand margin indicate marks.		
210 Q1	Answer the following questions: <i>multiple type or dash fill up type</i>	(2 x 10)
a)	Which of the following is an autoimmune disease a)Type-1 Diabetes mellitus b) Type-2 Diabetes mellitus c) Haemophilia A d) Sickle cell anemia	(2 x 10)
b)	Main antibody involved in allergies reaction is a) IgG b) IgA c) IgD d) IgE	
₂₁ C)	Which of the following is associated with passive immunity? 210 Long-term immune protection Infusion of weakened viruses Passage of IgG antibodies from the pregnant mother to her fetus Booster shot	210
d)	B lymphocytes develop immunocompetence in the	
e)	The antibody molecule is held together by bonds.	
₂₁₀) g)	A graft from a monkey to a human is an example of an graft. B cells mature in the while T cells mature in the	210
97 h)	The specificity of an antibody is due to its valence The heavy chains The Fc portion of the molecule The variable portion of the heavy and light chain	
i) 210	Which of the following substances will not stimulate an immune response unless they are bound to a larger molecule?	210
j)	a) Antigen b) Virus c.)Hapten d). bacteria Fusion between a plasma cell and a tumor cell creates a a) Myeloma b) Natural killer cell c) Lymphoblast d) Hybridoma	
Q2	Answer the following questions: Short answer type	(2 x 10)
₂₁₀ a)	In clonal selection of B cells, which substance is responsible for determining which cells will eventually become cloned?	210
b)	Write the role of Bursa fabricius in immune system?	
c)	Draw a schematic diagram of a typical IgG molecule and label each of the following parts: H chains, L chains, interchain disulfide bonds, intra chain disulfide bunds, hinge region, Fab region and Fc and all the domains?	
210 d)	Name any two secondary lymphoid organs and mention their important functions?	210