Harrish chang obra

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST 2 EXAMINATIONS - DECEMBER 2017

B.Tech V Semester (BT/BI)

COURSE CODE: 10B11BT514

MAX. MARKS: 35

COURSE NAME: IMMUNOLOGY

COURSE CREDITS: 04

MAX. TIME: 2.0 HRS

Note: All questions are compulsory. Carrying of mobile phone during examinations will be weated as case of unfair means.

1.	What are cytokines? Discuss their properties.	2
2.	Write a note on cytokine antagonists.	2
3.	Define antigenic drift and antigenic shift.	2
4.	What are advantages and disadvantages of attenuated viral/bacterial vaccines?	2
5.	Describe the sequence of events in the B sell activation by a thymus dependent antigen.	3
6.	Discuss various mechanisms of impulsological tolerance.	3
7.	Describe various immune evasion strategies of parasites.	3
8.	What are recombinant yeards vaccines?	3
9.	"All the three pathways of complement activation converge at C3 convertase" justify this statement.	5
10.	What is type I hypersensitivity? Describe its various components and mechanism.	5
11.	. What are various criteria for characterizing a disease as an autoimmune disease? Describe	е
*	mechanisms of autoimmunity.	5