

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- October 2017

B.Tech (Biotechnology) Vth Semester

COURSE CODE: 10B11BT514

MAX. MARKS: 25

COURSE NAME: IMMUNOLOGY

COURSE CREDITS: 4

MAX. TIME: 1.5 Hrs

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

1. Describe an experiment that shows that T-cells play a key role in graft rejection. (3)
2. Comment on the statement "processing of antigen is required for the recognition by T-cells". (3)
3. Give an experimental setup demonstrating existence of two antigen processing and presentation pathways. (3)
4. Write a note on agglutination inhibition. (3)
5. Give comparison of antigen recognition by B cells and T cells. (3)
6. Describe various mechanisms that lead to generation of antibody diversity. (5)
7. Write a note on Class I MHC and Class II MHC molecules giving their structure. What role does MHC play in disease susceptibility? (5)