

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST-1, SUMMER SEMESTER EXAMINATION- JUNE 2018

B.Tech. V Semester

COURSE CODE: 1011BT514

MAX. MARKS: 50

COURSE NAME: Immunology

COURSE CREDITS: 04

MAX. TIME: 2 HRS

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

(Marks: 10 X 5 = 50)

1. Write a note on primary and secondary immune response.
2. What are various biological functions of antibodies?
3. Give comparison of antigen recognition by B-cells and T-cells.
4. What do you understand by cross reactivity, explain giving suitable examples?
5. Draw structure of Class I MHC and II MHC molecules.
6. What are Freund's complete and Freund's incomplete adjuvants? Give various modes of action of adjuvants.
7. Briefly describe various mechanisms that lead to generation of antibody diversity.
8. Write a note on Superantigens and Haptens.
9. What are differences between apoptosis and necrosis?
10. What are monoclonal antibodies? Give various steps of Hybridoma technology.