

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST -1 EXAMINATION- Sept.2017
B.Tech V Semester (Biotechnology)

COURSE CODE: 10B11BT514

MAX. MARKS: 15

COURSE NAME: IMMUNOLOGY

COURSE CREDITS: 04

MAX. TIME: 1Hrs

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

1. Explain followings:- 5 X 1 = 5
 - a. Variolation with examples
 - b. Overview of humoral and cellular immune responses
 - c. Antibody-dependent cell mediated cytotoxicity (ADCC)
 - d. Name factors that influence immunogenicity
 - e. Superantigens
2. Describe innate and adaptive immunity. What are their components? 2
3. Give differences between apoptosis and necrosis. 2
4. What are haptens? Discuss with examples. 2
5. Give biological functions of antibodies. 2
6. Discuss antigenic determinants on antibodies. 2

BT-2, BT