

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -3 EXAMINATION- 2021

B.Tech/ M.Tech V Semester

COURSE CODE: 18B11BT513

MAX. MARKS: 35

COURSE NAME: IMMUNOLOGY

COURSE CREDITS: 03

MAX. TIME: 2 Hours

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

- [1] Adaptive immunity has evolved in vertebrates but they have also retained innate immunity. What would be the disadvantages of having only an adaptive immune system? Comment on how possession of both types of immunity enhances protection against infection. [5]
- [2] Describe the various specific defense mechanisms that the immune system employs to combat various pathogens. [4]
- [3] What are the advantages and disadvantages of using attenuated organisms as vaccines? [5]
- [4] Describe active and Passive immunity and write down the key difference between active immunity and passive immunity? [4]
- [5] Write an account on type and mechanism of hypersensitivity [6]
- [6] Molecular mimicry is one mechanism proposed to account for the development of autoimmunity. How has induction of rheumatic fever contributed to the understanding of molecular mimicry in autoimmune disease? [5]
- [7] Write a note on: [6]
 - a. Immunodeficiency disease
 - b. MHC complex
 - c. Complement system