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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST-3 EXAMINATION- DECEMBER -2018

B.Tech. Biotechnology V Semester

COURSE CODE: 10B11BT514

MAX. MARKS: 35

COURSE NAME: IMMUNOLOGY

COURSE CREDITS: 04

MAX. TIME: 2 HRS

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

Section A (3 Marks each)

1. What are secondary lymphoid organs? Draw structure of lymph node. (COII)
2. Write a note on indirect ELISA and competitive ELISA. (COII)
3. Write a note on passive immunization. What are conditions warranting passive immunization? (COI, V)
4. Describe various mechanisms of autoimmunity. (COIV)
5. What are various criteria for an autoimmune disease? Describe briefly Graves' disease. (COIV)

Section B (5 Marks each)

6. Answer followings:- (COIII)
 - a. How does cytokine antagonist work?
 - b. How does immune specificity fit with non-specific cytokines?
7. Describe (with examples) various immune evasion strategies used by parasites. (COIV)
8. What do you understand by Type I hypersensitivity? Give its components and mechanism. (COV)
9. Write a note on advantages/disadvantages of attenuated and inactivated vaccines. (COV)