

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -3 EXAMINATION- Dec 2017

B.Tech III Semester

COURSE CODE: 14B11BI311

MAX. MARKS: 35

COURSE NAME Microbiology and Immune System

COURSE CREDITS: 4

MAX. TIME: 2Hr

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

- Q1. With reference to MHC molecules, answer the following: [3 + 5 = 8]
- Structure, Inheritance and Types.
 - Pathways for Antigen Presentation and Processing.
- Q2. Write Short Note on: [2 X 4 = 8]
- Double Immuno Diffusion and its application.
 - Hemagglutination and its utility in blood transfusions.
- Q3. With reference to Antibodies, answer the following: [2 + 2 + 3 = 7]
- Clonal selection theory and generation of Antibodies.
 - Subtypes of Antibodies and their important functions.
 - Detailed structure of an Antibody molecule.
- Q4. Describe Lytic and Lysogenic Cycle of viral replication, using suitable diagrams. [6]
- Q5. What are Active and Passive Immunity? Explain their types with suitable examples. [4]
- Q6. List the contributions of Louis Pasteur in the development of Industrial Microbiology. [2]