JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

MAKE UP EXAMINATION- April -2018

B.Tech Bioinformatics 6th Semester

COURSE CODE: 16B11BI611   MAX. MARKS: 25

COURSE NAME: Computer Aided Drug Design

COURSE CREDITS: 4   MAX. TIME: 1 HR 30 MIN

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

Q1. What is structure based rational drug design. How is it better than serendipity? **(2 Marks)**

Q2. What is drug resistance? What are the mechanisms by which bacterial pathogens develop drug resistance? **(3 Marks)**

Q3. Explain as to how drugs are developed and approved. **(3 Marks)**

Q4. Explain SMILES format and write its advantages. **(5 Marks)**

Q5. Explain as to why one should not self-medicate antibiotic treatments? **(2 Marks)**

Q6. Compare and contrast any three 3D molecule file formats? **(5 Marks)**

Q7. Explain in detail the Drug discovery life cycle and different stages of clinical trials.

(5 Marks)