Dr. Raj Kumar

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
T1 EXAMINATIONS, FEBRUARY-2020

B.TechVISemester

Course Code:18B11BI612   MAX. MARKS: 15

Course Name: Computer Aided Drug Design   MAX. TIME: 1Hour

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. Marks are indicated in square brackets against each question.

Q1. Each question carries one mark:

    i. Approximately ....% protein targets are unknown for drug discovery. (**1 mark**)

    ii. Which approach can be used for drug design in presence of protein structure and in absence of a ligand structure (**1 mark**)

    iii. At least ....Compound(s) required for ligand-based drug design. (**1 mark**)

    iv. What are hit and lead molecules? (**1 mark**)

    v. What is drug repositioning? (**1 mark**)

Q2. Discuss the reverse chemical genetics approach in target identification. (**2 marks**)

Q3. Explain systematic search algorithms in docking. (**2 marks**)

Q4. Give a brief account of HIV-1 reverse transcriptase inhibitors. (**3 marks**)

Q5. Explain working of CASTp program (**3 marks**)