JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2026

B.Tech-VI Semester (BI)

COURSE CODE(CREDITS): 18B11BI612 (3) MAX. MARKS: 15

COURSE NAME: Computer Aided Drug Design

COURSE INSTRUCTORS: Dr. Raj Kumar MAX. TIME: 1 Hour

Note: *(a) All questions are compulsory.*

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

(c) Use of calculators is not allowed

Q.No	Question	CO	Marks
Q1	Analyse the impact of bioinformatics and computational tools on modern drug design strategies.	1	3
Q2	Explain why drug repurposing has become an attractive drug discovery strategy compared with traditional de novo drug discovery.	1	2
Q3	Assuming that only ligand structural information is available, which drug design strategy would be most appropriate? Justify your answer with suitable examples.	1	3
Q4	Remdesivir was the first FDA approved treatment for COVID-19. Explain its mechanism of action.	2	3
Q5	Describe the HIV entry into target host cells. How entry inhibitors can avoid viral entry into host cells?	2	4

30