## JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -2 EXAMINATION- APRIL-2023

COURSE CODE(CREDITS): 18B11BI612 (3)	MAX. MARKS: 25
COURSE NAME: Computer Aided Drug Design	W. WARRS, 23
COURSE INSTRUCTORS: Dr. Raj Kumar MAX.	ГІМЕ: 1 Hour 30 Minutes
Note: All questions are compulsory. Marks are indicated against each of	question in square
brackets.	
Q. Drug target identification is an essential part of modern rational drug important considerations for identification of a suitable drug target. (CO Q. Suppose you have an unknown protein 3D structure. How will you: (	[5]
<ul><li>a) find out the sequence of the protein?</li><li>b) probable function for the protein?</li><li>c) ligand-binding site?</li></ul>	[1] [2] [2]
Q. LBDD and SBDD are two important approaches in computational druimportant LBDD strategies to identify potential hit compounds. (CO-2)	ng design. Enlist some
Q. There are thousands of potential drug targets under investigation. Who of current drug targets? (CO-3)	at are the major classes [3]
Q. CASTp is based on theoretical and algorithmic results of computation angles of same dimensions having base length of 10nm and height of 20n receptor. The calculate the area of void? (CO-4)	al geometry. If three am form the void in the [3]
Q. Give a brief account on: (CO-3)	$[2 \times 3 = 6]$
<ul><li>a) Hit vs. Lead</li><li>b) Microarray for target validation</li><li>c) Receptor flexibility in docking</li></ul>	

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