Name:	WIDES						
Enrolmen	t No:						
	UPES						
	End Semester Examination, May 2025						
Course: Computer Aided Drug Design Program: B. Pharm Course Code: BP807ET		Semester: VIII Duration: 03 Hours Max. Marks: 75					
				Instruction	ons: Read the question paper carefully. Attempt the questions as me	ntioned.	
					SECTION A		
(20Qx1M=20 Marks)							
S. No.	Multiple Choice Questions/objective/one line	Marks	COs				
0.1	Define the town lee D	1	CO1				
Q1	Define the term log D. Differentiate between SP and VP method of declains in schoolinger.	1	CO1				
Q 2	Differentiate between SP and XP method of docking in schrodinger. Write the full form for SAR.	1	CO1				
Q 3 Q 4		1	CO1				
	A lead is acompound. Ligand efficiency is defined as .	1	CO1				
Q 5 Q 6	Define the RO5.	1	CO1				
Q 7	Give four examples of software used for pharmacophore mapping.	1	CO1				
Q 7 Q 8	The bark of tree was used to treat malaria.	1	CO1				
Q 9	Give examples of hydrogen bond acceptors.	1	CO1				
Q 10	Write the full form for HTVS.	1	CO1				
Q 11	database consists of publically available DNA sequence.	1	CO2				
Q 12	SIDER contains information on and their	1	CO2				
Q 13	PACT-F stands for .	1	CO2				
Q 14	Write the full form for HBD.	1	CO2				
Q 15	DDBJ stands for .	1	CO2				
Q 16	The orange book provides .	1	CO2				
Q 17	Write the full form for HBA.	1	CO2				
Q 18	Define Free wilson approach.	1	CO2				
Q 19	Verloop stearic parameter can be calculated using software.	1	CO2				
Q 20	Write the full form of CoMFA.	1	CO2				

Attemnt 2 Question out of 3

Attempt 2 Question out of 5				
Q 1	Explain drug discovery without a lead. Write the case study of two drugs discovered through this approach.	10	CO5	
Q 2	Discuss different types of docking. Write applications of molecular docking.	10	CO5	

SECTION B (20 Marks) (2Qx10M=20 Marks)

Q 3	Define cheminformatics. Explain with suitable examples the use of	2+8	CO4				
	cheminformatics in drug discovery.						
	SECTION-C (35 Marks)						
	(7Qx5M=35 Marks)						
Attemp	t 7 Question out of 9						
Q 1	Differentiate between random and non-random screening approach in	5	CO4				
	drug discovery.	3	CO4				
Q 2	Classify different types of databases in Bioinformatics. Give a	2.5+2.5					
	minimum of two examples of each category.		CO4				
Q 3	Discuss the concept of pharmacophore. Elaborate pharmacophore-	2.5+2.5	CO4				
	based screening approach.	2.3 12.3	C04				
Q 4	Differentiate between SAR and QSAR.	5	CO4				
Q 5	Write a case study involving the use of bioisosterism.	5	CO3				
Q 6	Differentaite between COMFA and COMSIA.	5	CO3				
Q 7	Write in detail about induced fit docking.	5	CO3				
Q 8	Discuss the use of HTVS in drug discovery.	5	CO3				
Q 9	Draw a flowchart showing steps used in lead						
	identification using pharmacophore-based 3D database	5	CO3				
	searching.						