

Name. _____		Printed Pages:01		
Student Admn. No.: _____				
School of Medical and Allied Sciences Summer Term Examination – July - August 2024 [Programme: M.Pharm] [Semester: I] [Batch: Summer 2023-24]				
Course Title: Computer Aided Drug Delivery System		Max Marks: 100		
Course Code: MPHT2003		Time: 3 Hrs.		
Instructions:	1. All questions are compulsory. 2. Assume missing data suitably, if any.			
		K Level	COs	Marks
SECTION-A (15 Marks)		5 Marks each		
1.	Explain the Modeling Techniques & Importance of ASBT in drug disposition.	K2	CO1	5
2.	Show the role of Nucleoside Transporters..	K2	CO2	5
3.	Demonstrate the importance of the solubility of API in pharmaceutical product development.	K2	CO2	5
SECTION-B (40 Marks)		10 Marks each		
4.	Relate the role of Population Modeling as well as Sensitivity Analysis in relation to Pharmaceutical industry..	K2	CO1	10
5.	Organize the significance of hPEPT1, ASBT, OCT, OATP, and BBB-Choline Transporter.	K3	CO2	10
6.	Simplify the importance of Factorial design & Screening design in formulation development.	K4	CO3	10
7.	Organize the Advances in drug delivery systems with respect to ocular and pulmonary delivery..	K3	CO6	10
SECTION-C (45 Marks)		15 Marks each		
8.	Simplify the importance of Factorial design & Screening design in formulation development.	K4	CO3	15
9.	Explain various levels of IVIVC.	K5	CO4	15
10	Explain how AI-driven drug repurposing contribute to accelerating drug development timelines and reducing costs in the pharmaceutical industry in the future?	K5	CO5	15