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Total No. of Pages : 01

Total No. of Questions : 08

M.Sc.(Ph. Chem) (Sem.-3) DRUG DESIGN AND DEVELOPMENT Subject Code : MSPC-205 Paper ID : [F0274]

Time: 3 Hrs.

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Max. Marks: 80

INSTRUCTIONS TO CANDIDATES :

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries SIXTEEN marks.

1.	De	escribe the following :	
	a)	Target based drug design	8
	b)	De Novo drug design	8
2.	a)	What are the various database and information retrieval techniques used in studies?	in silico 10
	b)	Briefly discuss ab initio method used CADD	6
3.	a)	Define peptidomimetics. Discuss the applications of oligonucleotides in ant antitumoral chemotherapy.	tiviral and 8
	b)	Write a note on rational design for peptidomimetics.	8
4.	a)	What is the significance of Craig plot and regression analysis in QSAR?	8
	b)	Discuss 2D and 3D analysis in QSAR.	8
5.	a)	What are prodrugs?	6
	b)	Discuss about the application of prodrug approach in site specific drug de prevention of presystemic metabolism	livery and 10
6.	W	rite notes on following	
	a)	Significance of Lipinski rule	7
	b)	Single and two compartment pharmacokinetics	9
7.	a)	What is the role of charge transfer in drug action?	8
	b)	Write a note on carbohydrate based therapeutics.	8
8.	Di	scuss briefly :	
	a)	Importance of regression analysis in QSAR	8
	b)	Agonists and antagonists	8
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