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Roll No. Total No. o			of Pages : 01	
Tota	al No	o. of Questions: 06		
	M.PI	harma(Pharmaceutical Chemistry)(2017 & Onwards) (Sem2)  COMPUTER AIDED DRUG DESIGN  Subject Code: MPC-203T  M.Code: 74957		
Time: 3 Hrs. Max. M			i	
INST	RUC	TIONS TO CANDIDATES :		
1. 2.		empt any FIVE questions out of SIX questions. h question carries FIFTEEN marks.		
1.	a)	Briefly explain Lipinsky's Rule of five.	7	
	b)	What do you mean by term preADME. Discuss the significance of preADN prediction in drug discovery process.	ME 8	
2.	a)	Write short note on Fragment based Denovo drug designing.	5	
	b)	Write a short note on global energy minimization.	5	
	c)	Briefly explain Craig plot.	5	
3.	a)	Explain in detail Homology modelling and the method adopted for the generation the 3D structure of a protein.	1 of 7	
	b)	Give a detailed account of Pharmacophore mapping.	8	
4.	a)	Explain Topliss Decision Tree for aromatic substituents in deciding on new analogues with improved biological activity.	wer 5	
	b)	Discuss Structure based in silico virtual careening.	5	
	c)	Discuss different Statistical approached used in QSAR.	5	
5.	bio	umerate the different physicochemical properties of a drug molecule that influence ological activity and describe in detail about hydrogen bonding and ionizat fluences on biological activity.		
6.		efine and classify QSAR with their advantages. Elaborate on the multi-parameter proach to QSAR as enunciated by Hansch.	tric 15	



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NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any

page of Answer Sheet will lead to UMC against the Student.