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FACULTY OF PHARMACY

M. Pharmacy (Pharmaceutical Chemistry) II-Semester (PCI) (Suppl.) Examination, January 2020

	Subject: Computer Aided Drug Design		
lime:	3 Hrs	Max. Mark	ks: 75
	Note: Answer any five questions. All questions carry equal	marks.	
1	 (a) Discuss abt Lipophilic and electronic parameters used in QSAR (b) Give a hypothetical Hansch equation for predicting biological action explain the importance of each term. 	ivity and ((8+7)
2	(a) Discuss the statistical terms Correlation coefficient, re-validation validation.	and cross-	
	(b) Write the advantages of Free Wilson analysis.	((8+7)
3	(a) Write a note on molecular mechanics in drug design.(b) Discuss abt varis energy minimization techniques in molecular		
	modeling.	((8+7)
4	(a) How do y predict Abso rption of new molecules ? Discuss any t (b) Write a short note on de novo drug design.	three mode	els. (8+7)
5	 (a) What is homology modeling? Enumerate steps involved in homo modeling. (b) Write a note on agents acting on DHFR and HMGCoA reductase 	logy ((9+6)
6	Write a short note on : (a) Drug likeness screening (b) Structure based <i>in silico</i> virtual screening	(8+7)
7	(a) Explain abt rigid docking, Flexible docking and extra -precision (b) Explain, how molecular docking is useful in rational design of nev	docking. w drugs? ((8+7)
8	Write a short note on : (a) Hansch analysis (b) Statistical methods used in QSAR	((8+7)
