BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

		(END SEMESTER	(EXAMINA LION)		
CLASS: BRANCH	MPHARM I: PHARMACY			SEA SES	WESTER : II SSION : SP/18
TIME:	3.Hours	SUBJECT: MPH2015 COMP	PUTER AIDED DRUG DES	IGN FU	LL MARKS: 60
 INSTRUCTIONS: 1. The question paper contains 7 questions each of 12 marks and total 84 marks. 2. Candidates may attempt any 5 questions maximum of 60 marks. 3. The missing data, if any, may be assumed suitably. 4. Before attempting the question paper, be sure that you have got the correct question paper. 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall. 					
Q.1(a) Q.1(b)	Distinguish betweer Elaborate with the	ו 2D QSAR and 3D QSAR and help of diagram (i) Craig Plo	enumerate their advant ot (ii) Topliss tree for arc	ages and disadvonatic substitue	vantages. [6] ents. [6]
Q.2(a) Q.2(b)	Explain the terms: Explain energy mini	(i)Molecular Modelling (ii)Ba mization with examples.	sic Modules required in	a molecular mo	deling system. [6] [6]
Q.3(a) Q.3(b)	Elaborate the (i) Ab How will you identi	initio methods (ii) Semi em fy the bioactive conformation	npirical methods. on? Detail the procedure		[6] [6]
Q.4(a) Q.4(b)	Discuss in detail abo Discuss in detail the	out various statistical metho problems associated with o	ods generally adopted fo de novo drug design. Disc	r developing AE cuss the means	DMET models. [6] to handle them. [6]
Q.5(a) Q.5(b)	Briefly list the ap the <i>Alignment of To</i> How will you define	oplications of comparative arget Sequence. e a Pharmacophore? Write a	e homology modeling. note on ROC.	Discuss in o	detail regarding [6] [6]
Q.6(a) Q.6(b)	Make a flow diagram the protocol used for Explain <i>Deformation</i>	n for Pharmacophore mode or practicing them. n in detail.	lling and Similarity Sear	ch. Differentiat	e on the basis of [6]
Q.7(a) Q.7(b)	Write short notes of Write a note on mo	n Docking. del validation methods usec	for ADMET models.		[6] [6]

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