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

CLASS:	MPHARM/PRE-PHD	SEMESTER : II/NA	
BRANCH	H: PHARMACY	SESSION : SP/18	
TIME:	SUBJECT: MPH2035 PRINCIPLES OF DRUG DISCOVERY 3.Hours	FULL MARKS: 60	
1. The (2. Cand 3. The (4. Befor 5. Table	CTIONS: question paper contains 7 questions each of 12 marks and total 84 marks. lidates may attempt any 5 questions maximum of 60 marks. missing data, if any, may be assumed suitably. re attempting the question paper, be sure that you have got the correct que es/Data hand book/Graph paper etc. to be supplied to the candidates in the	examination hall.	
Q.1(a) Q.1(b)			[6] [6]
Q.2(a) Q.2(b)			[6] [6]
Q.3(a)	Explain the characteristics of a prodrug. Give examples.		[6]
Q.3(b)	Recall the prodrug approach for prolongation of activity.		[6]
Q.4(a)	Describe the different steps of the modern drug discovery process.		[6]
Q.4(b)	Define Genomics. Explain the role of Genomics in the Target discovery.		[6]
Q.5(a)	Describe different levels of protein organization in detail.		[6]
Q.5(b)	Explain the role of High Throughput Screening in Lead identification.		[6]
Q.6(a)	Define the role of Transgenic animals in Target Validation.		[6]
Q.6(b)	Define the basic principle of NMR. Explain the application of NMR in the prediction of protein structure.		[6]
Q.7(a)	Write short notes on Tagging in combinatorial chemistry.		[6]
Q.7(b)	Write short notes on Microarray technology.		[6]

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