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

CLASS:	M PHARM	SEMESTER : I	
BRANCI	I: PHARMACY	SESSION : MO/19	
TIME: 3:	SUBJECT: MPL102T ADVANCED PHARMACOLOGY-1 00 HOURS	FULL MARKS: 75	
 INSTRUCTIONS: The question paper contains 7 questions each of 15 marks and total 105 marks. Candidates may attempt any 5 questions maximum of 75 marks. The missing data, if any, may be assumed suitably. Before attempting the question paper, be sure that you have got the correct question paper. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall. 			
Q.1(a)	Describe different process of drugs absorption.	suitable example.	[7]
Q.1(b)	Explain correlation between pH and pKa and give their clinical significances with s		[8]
Q.2(a) Q.2(b)	Explain the terms potency, affinity and efficacy. Compare the pathways for G_{S_1} Gi and Gq signalling.		[7] [8]
Q.3(a) Q.3(b)	 What is clearance? Explain 1st order kinetics and Zero order kinetics with suitable of the equation among clearance, Volume of distribution (Vd) and t_{1/2} Write notes on (i) Bioavailability & first pass metabolism (ii) BBB & Redistribution (iii) Maintenance and loading dose 	examples & correlate	[7] [8]
Q.4(a)	Distinguish between partial, total and inverse agonists.	у	[7]
Q.4(b)	Function of a receptor may be regulated by the process of desensitization". Justif		[8]
Q.5(a)	Describe synthesis, release, termination & postjunctional action of neurohumoral	transmitters	[7]
Q.5(b)	Describe specific neurotransmitter such as Noradrenaline neuronal pathway in brai	in and their function.	[8]
Q.6(a)	Explain the structure and process of activation of Receptor tyrosine kinase.		[7]
Q.6(b)	Compare the mechanism of actions of general and local anesthetic.		[8]
Q.7(a) Q.7(b)	Define & Classify Angina pectoris. Classify antianginal and explain their mechanism uses. Define and classify heart failure. Write drug regimens for heart failure patients.	m of action and their	[7] [8]

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