C.U.SHAH UNIVERSITY Winter Examination-2022

Subject Name : Biopharmaceutics and Pharmacokinetics - Theory Subject Code : BP604T Branch: B.Pharm				
Semes			'ime : 11:00 To 02:00	Marks : 75
Instruc				
(2) (3)	Instr Drav	of Programmable calculator & any other actions written on main answer book are a neat diagrams and figures (if necessary) me suitable data if needed.	strictly to be obeyed.	rohibited.
0.1		Elaborate the terms:		(20)
Q-1	a)	Clearance		(20)
	a) b)			
	c)	First Pass Metabolism		
	d)	Active Diffusion		
	e)	Hepatic clearance		
	f)	Bioavailability		
	g)	Renal Clearance		
	h)	Bioequivalence		
	i)	Pharmacokinetic Models		
	j)	BCS Class		
Q-2	A	Attempt any two of following: Enlist various factors influencing GI ab form and explain physicochemical facto detail.		-
	В	Define biotransformation and discuss in biotransformation	brief phase I and Phase	II 10
	С	Explain Michaelis Menten equation for	capacity limited process	10
Q-3		Attempt any Seven of following:		(35)
	Α	Discuss the kinetics of protein binding		5
	B	Comment on passive diffusion is one of drug absorption	-	
	С	Discuss the absorption of drugs from no		
	D	What are pharmacokinetic models? Exp models	alain in detail compartmen	nt 5
	Ε	Discuss USP dissolution apparatus with	1	5
	F	Write a note on renal excretion of drugs		5
	G	What are the problems faced in formula Discuss suitable strategies to overcome	them	-
	H	Write a note on Wagner Nelson Method		5
	Ι	Discuss various methods used for the m	easurement of bioavailab	ility 5

