Q.P. Code: 717500

		(3 Hours)	[Total Marks : 70	0		
N.B. :	(1)	All the questions are compulsory				
	(2)	Figures to the right indicate full marks		^		
	(3)	Use of scientific calculator is permitted.	S	V		
1. Answer the following: (a) Define distribution (b) Stomach is not the principal site of drug absorption 2						
	(a)	Define distribution	(P 2			
	(b)	Stomach is not the principal site of drug absorption	٨٠٠٠٠٠ 2			
	(c)	Chloroquine has volume of distribution approximately	15000 liters.			
			^			
	(d)	Explain. What is enzyme auto-induction?	2			
	(e)	How are drugs excreted through pulmonary route.	2			
	(f)	How do you classify drug as highly soluble as per BC	S? 2			
	(g)	What are the assumptions of one compartment model?	2			
	(h)	Differentiate between absolute and relative bioavailab	ility. 2			
		CX.				
2. (a)	Disc	uss the characteristics of passive diffusion.	4	•		
(b)		do salt forms of drugs show better assolution and abso				
(c)	Wha	t is the effect of gastro intestinal on drug absorption	? 3	1		
3. (a)	How	does the compression forcemployed in tabletting affe	ect absorption 3			
		rugs?	1			
(b)	Wha	t are the physiological parriers to distribution of drugs. D	iscuss blood- 4			
		barrier.				
(c)	Disc	uss sigma minus method of urine analysis after IV admi	nistration. 4			
		OR				
		e a note on Michaelis Menten Kinetics.				
4. (a)	Why	is glucuronidation the commonest and most importan	t of phase II 4	,		
	react	tions	•			
(b)	How	Ses the hepatic blood flow affect hepatic clearance of	the drugs? 3			
(c)	Enla	various factors affecting renal clearance of drug. Discu	iss any one in 4			
	detai	1.				
(c) Enths various factors affecting renal clearance of drug. Discuss any one in 4 detail.						
1/4.						

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5. (a)	How does polymorphism affect the dissolution of drugs.		
(b)	Describe dissolution rate study using Apparatus I as per I.P.		
(c)	How do you measure bioavailability using plasma level-time profile.	4	
X - 7	OR	~	
	What are the different bioequivalence experimental study designs. Discuss any one.	NRO PROPERTY.	
6. (a)	Describe all the pharmacokinetic parameters after oral administration of drugs. OR OR	4	
	OR O.		
(b)	Describe all the pharmacokinetic parameters following IV administration of drugs. An intravenous bolus dose(150mg) of a drug following one compartment		
(b)	kingties gave an extrapolated concentration at zero time of 35 mg/L and a	9	
	kinetics gave an extrapolated concentration at zero time of 35 mg/L and a K_E value of 0.91hr ⁻¹ . Calculate		
	(i) Volume of distribution (ii) Half Life (iii) AUC (zero to infinity)	1	
	(ii) Half Life	1	
	(iii) AUC (zero to infinity)	1	
	(iv) The amount eliminated from the body after 8 hours	2	
	(v) Time required to eliminate 70% of the dose.	2	
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