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[LB	823]	OCTOBER 2012		Su	Sub. Code: 3823		
	PHARM. D / PC	OST BACCALAURE	ATE DEGREE EX	AMINA	TION		
FOURTH YEAR							
PAPER V – BIOPHARMACEUTICS AND PHARMACOKINETICS							
0 P. Code: 383823							
Tim	e: Three Hours	2		Maximum: 100 marks			
I. El	Answer ALL questions in the same order.			Pages (Max.)	Pages Time Marks (Max.) (Max.) (Max.)		
1.1	Discuss the principle t	hat governs the renal e	excretion of drugs?	17	40 min.	20	
 2. Define Nonlinear Pharmacokinetics? What are the causes for the Nonlinearity? Explain Michaelis Menten equation with respect to the estimation of K_m and V_{max}? 				17	40 min.	20	
II. V	Write notes on :						
1. Write a note on measurement of bioavailability by plasma Level - time study?				4	10 min.	6	
 Discuss Latin square design in bioequivalent study? Derive the equation for two compartment open model 				4	10 min.	6	
intravenous infusion?				4	10 min.	6	
4. How to determine the normal renal function in patients?				4	10 min.	6	
5. Write a note on statistical moment theory?				4	10 min.	6	
6. Calculate the absolute bioavailability of Amoxycillin capsule.				4	10 min.	6	
The dose of the capsule was 500 mg and the AUC was 50.9 mcghr/L.							
7	The dose of TV amoxy	cillin is 250 mg and th	le AUC 18 34.63 mc	gnr/L.			
7. while the importance of wagner Nelson method in pharmacokinetics?				1	10 min	6	
8 Write a note on Non Compartmental Pharmacokinetics				4 1	10 min.	6	
9 What are the formulation factors that affect drug absorption?				+ 1	10 min	6	
10. z	After oral administrati	ion of single dose of 50 ta were obtained. Calc	00 mg rifampicin ulate the renal	-	TO IIIII.	0	
(excretion rate.			4	10 min.	6	
	Collection interval	Urine volume (ml)	Urine Concentrat (mg/ml)	ion			
	0-2	119	0.60				
	2-4	81	0.70				
	4-8	160	0.50				
	8-12	220	0.23				
	12-18	284	0.15				
	18-24	212	0.10				