Jate 2:30 to 4:30 Final year B. pharm sem VII Time 2:30 to 4:30 Biopharmaceuties and pharmacokineties

pra -oct -80

Со	n. 5267-08. RS-4733	
,	(2 Hours) [Total Marks : 35	
N.E	3. : (1) Question No. 1 is compulsory. (2) Answer any four of the remaining six questions.	
1.	Discuss in detail passive diffusion and active transport in terms of the role in absorption. Give examples.	7
2.	(a) Discuss the barriers to drug transport.(b) Write a note on binding of drugs to serum albumin.	4
3.	(a) Write a note on Hepatic clearance and factors affecting hepatic clearance.(b) Write a note on The renal excretion of drugs.	4
4.	Write a note on phase I and phase II drug metabolic reactions.	7
5.	An intravenous bolus dose (25 mg) of a drug following one compartment kinetics gave an extrapoluted concentration at zero time [Co] of 36 µg/L and a 'K' of 0.045 hr ⁻¹ . Calculate—	7
	 (a) The half life and the volume of distribution. (b) The total body clearance and AUC (zero to infinity) (c) The time required to eliminated 45% of the dose. (d) The amount of drug eliminated in 24 hours. (e) The concentration after 16 hours of the dose. 	
6.	(a) Write a note on bioequivalence measurement.	4
	(b) Describe any one official dissolution testing method.	3
7.	(a) Write a note on Method of residuals Or Rate method for urine analysis.(b) Describe the Noyes-Whitney equation and all its terms.	4