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Code No: B134201		<b>(R13)</b>			$\left( \text{SET} - 1 \right)$	
Timat	IV B. Pharm	acy II Semester Regular BIOPHARMACEUTICS	SAND P	nentary Examinations, A HARMACOKINETICS	April - 2019 Mox Mort	70
1 me.	Note	<ul><li>e: 1. Question Paper consi</li><li>2. Answering the quest</li><li>3. Answer any <b>THREE</b></li></ul>	ists of tw ion in <b>Pa</b> E Questio	o parts ( <b>Part-A</b> and <b>Part-</b> rt-A is Compulsory ns from <b>Part-B</b>	• <b>B</b> )	.8: 70
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1. a)	Give the sign phagocytosis	nificance of phagocytosis	s and giv	e two examples of drugs	undergoing	(3M
b)	Write about b	oinding sites for plasma p	rotein bir	ding.		(4M
c)	Give the diffe	erences between Wagner-	Nelson n	nethod and method of resi	duals.	(3M
d)	How non-linearity is detected? Give two examples for drugs following non-linkinetics.					(4N
e)	Write the rea	ons for adjustment of dose in renal and hepatic failures.				(4N
f)	Write about t	the salient features of typic	eatures of typical blood concentration-time curve.			(4N
			PART -	<u>B</u>		
2. a)	Explain the significance of pharmaceutical factors influencing the drug absorption with suitable examples.					(9N
b)	Discuss the significance of passive diffusion and carrier mediated transport in drug absorption.					(7N
3. a)	Write about f	Trite about factors influencing drug distribution.				
b)	Give the differences between one and two compartment models. Mention the advantages of compartment modeling.					(8N
4. a)	Explain the calculation of (ka) absorption rate constant using WAGNER NELSON					(8N
b)	method. Write the advantages of using non-invasive methods for calculation of pharmacokinetic parameters. What conditions are to be followed during their usage?					(8N
5.	Write about t	the following:				(161
a)	Biological ha	lf life	c)	In vitro sink condition		
b)	Apparent vol	ume of distribution	d)	Renal clearance		
6. a)	Write about p	pharmacokinetic drug inte	ractions.			(9N
b)	A new drug was given in a single intravenous dose of 400 mg to an 80 kg adult male patient. After 6 hours, the plasma drug concentration was 3 mg/100 ml of plasma. Assuming that the apparent volume of distribution $(V_d)$ is 10% of the body weight, compute the total amount of drug in the body fluids after 6 hours.					
7. a)	Discuss the methods for improving bioavailability of drugs with suitable examples.					(8N
b)	Explain the c	calculation of $K_m$ and $V_{max}$	using do	ouble reciprocal plot.		(8N