Seat No.:	Enrolment No.
Sear NO.	Enrolment No

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. – SEMESTER – VIII • EXAMINATION – SUMMER • 2014

Subject Code: 280001 Date: 19-05-201			
Subj	ect Na	me: Dosage Form Design - II	
		0 am - 01:30 pm Total Marks: 80	
Instru	ictions:		
		tempt any five questions.	
		ake suitable assumptions wherever necessary.	
	3. FIŞ	gures to the right indicate full marks.	
Q.1	(a)	Classify the pharmacokinetic Model and state the application of	06
	()	pharmacokinetic Model	
	(b)	Enlist the methods for determination of absorption rate constant and	05
		explain any one in detail	
	(c)	What are the problems encountered in obtaining valid urinary	05
		excretion data?	
0.2	(a)	Discuss the merits and demerits of controlled release formulation	06
Q.2	(a) (b)	Discuss the erosion controlled Drug Delivery System.	05
	(c)	Give note on reservoir type oral Controlled Drug Delivery System.	05
		or to note on reservoir type or an contract of the great of the state	
Q.3	(a)	With reference to one compartment extra vascular model explain	06
		Residual concentration, Lag on absorption and Flip-flop phenomena	
	(b)	What is non-linear pharmacokinetic? Describe the equation that	05
	(.)	governs the non-linear Pharmacokinetics.	0.5
	(c)	Explain apparent volume of distribution. State its significance	05
Q.4	(a)	Write brief note on floating drug delivery system.	06
V. .	(b)	Discuss in brief delivery systems for oral mucosa	05
	(c)	Explain pharmaceutical approach to develop colonic Drug Delivery	05
		Systems in brief	
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Q.5	(a)	Discuss the factors that contribute to drug interaction.	06
	(b) (c)	What are the various ways of reducing risk of drug interaction? Explain the significance of Renal clearance and dosage regimen.	05 05
	(C)	Explain the significance of Renar clearance and dosage regimen.	03
Q. 6	(a)	Write a note on implantable osmotic drug delivery system.	06
	(b)	Explain rate programmed transdermal drug delivery system in brief.	05
	(c)	Classify and describe the various approaches employed for ocular	05
		drug delivery.	
0.7	(2)	What are the adventages and disadventages of physicles is a model?	04
Q.7	(a) (b)	What are the advantages and disadvantages of physiological model? Write a note on nanosuspension.	06 05
	(b) (c)	What processes of ADME are known to show non-linearity?	05
	(0)	Give examples	50
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