Seat No.: _		Enrolment No	
	GUJARAT TECHNOLOGICAL UNIVERSITY		
		M.PHARM- SEM-II-EXAMINATION – JULY 2012	
Subj	ect (	code: 2920102 Date: 06/07/2	012
Subj	ect ]	Name: Novel Drug Delivery System Part-I	
Time	e: 10	0:30 am – 01:30 pm Total Marks	s: 80
Inst	ruct	ions:	
1.	Atı	tempt any five questions.	
2.		ake suitable assumptions wherever necessary.	
		gures to the right indicate full marks.	0.0
Q.1	(a)	Enlist parameters to be considered in the design of controlled drug delivery system. Discuss various approaches for oral delayed release drug delivery system.	06
	(b)	Describe application of nanoparticle drug delivery system.	05
	(c)	Which categories of drug are suitable for GRDDS and Why? Explain expandable approach for GRDDS.	05
Q.2	(a)	Enlist patented techniques of osmotic drug delivery system. Explain Higuchi-Theeuwes Pump.	06
	(b)	What are the objectives of sublingual drug delivery system? Discuss	05
	( )	evaluation parameters of sublingual drug delivery system.	0.5
	(c)	Classify type of packaging material. Discuss selection criteria for packaging material and type.	05
Q.3	(a)	Discuss in detail about non animal capsule.	06
	(b)	Enumerate various approaches for colon targeting. Explain microbialflora activated system for colon targeting.	05
	(c)	Discuss factors affecting on drug release from osmotic drug delivery system.	05
Q.4	(a)	Discuss complexation technique for taste masking.	06
	(b)	Discuss various approaches of floating drug delivery system.	05
	(c)	Write a note on child resistant packaging.	05
Q.5	(a)	Enlist recent innovation of particle coating. Discuss Fluid bed coating.	06
	(b)	Discuss various approaches of delayed release capsule technology.	05
	(c)	Discuss regulatory aspects of packaging.	05
Q. 6	(a)	Describe various approaches to develop parenteral controlled drug delivery system.	06
	(b)	Enlist various method used for bioadhesive property measurement. Discuss any one.	05
	(c)	Describe recent advances in semisolid dosage form. Explain hydrogel.	05
Q.7	(a)	Classify types of Liposomes based on composition. Explain mechanism of liposome preparation.	06
	(b)	Write a note on Nanoemulsion drug delivery system.	05
	(c)	Describe formulation of ocular controlled drug delivery system.	05

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