Seat No.:	Enrolment No.
	GUJARAT TECHNOLOGICAL UNIVERSITY

M.Ph Semester-III Examination Dec. - 2011

Subject code: 930102 Date: 10/12/2011

Subject Name: Novel Drug Delivery System: Part-II

Time: 10.30 am – 01.30 pm Total Marks: 80

Instructions:

- 1. Attempt any five questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	What are standard and co-processed excipients? Discuss with	06
	<i>a</i> >	suitable example	
	(b)	Discuss inactive ingredient database	05
	(c)	Write a note on polymers as solubilizing agents	05
Q.2	(a)	Give biodegradation mechanism of naturally occurring polymers	06
	(b)	Discuss hydrolysable polymers	05
	(c)	Discuss polymers used in colon targeted drug delivery with suitable example	05
Q.3	(a)	Describe various polymers which undergo sol-gel transition	06
	(b)	Write a note on PEGylation	05
	(c)	Give application of nanotechnology in the field of pharmaceutical science	05
Q.4	(a)	Discuss any one method for particle coating technology	06
	(b)	Discuss various approaches of in-situ gelation	05
	(c)	Give advantages of using sonophoresis as a physical penetration enhancer	05
Q.5	(a)	Discuss the problems associated with liposomes drug delivery system	06
	(b)	What is intelligent drug delivery system? Give its application	05
	(c)	Write a note on tailor-made drug delivery system	05
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Q. 6	(a)	Discuss issues related to delivery of proteins and peptides	06
	(b)	Give drug delivery applications of supercritical fluid technology	05
	(c)	Discuss evaluation of bioadhesive drug delivery system	05
Q. 7	(a)	Write note on immunomodulated molecules	06
	(b)	Discuss any one biotech based product in detail	05
	(c)	Write potential of the prodrug approach ***********************************	05