Seat No.:	Enrolment No
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**M.Pharm Semester –II Examination Dec. - 2011

Subject code: 920102 Date: 0	8/12/2011
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**Subject Name: Novel Drug Delivery System Part-I** 

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)	Enumerate drawback of conventional dosage form. Describe various mechanism of drug release modulation in oral solid dosage forms.	06
	(b)	Describe advantages of osmotic drug delivery. Discuss EOP.	05
	(c)	Describe rational of gastroretentive drug delivery system. Explain high	05
	(0)	density approach.	00
Q.2	(a)	Describe effervescent based floating drug delivery.	06
	(b)	Explain significance of sublingual drug delivery system. How they are evaluated?	05
	(c)	Discuss regulating aspects of packaging materials.	05
Q.3	(a)	Describe pH dependent approach for colon targeted drug delivery.	06
	(b)	Enumerate various techniques for particulate coating. Explain spray dry coating.	05
	(c)	Describe factors affecting on drug release from osmotic drug delivery system.	05
Q.4	(a)	Enlist various approaches for taste masking. Explain encapsulation.	06
	(b)	Classify types of Liposomes based on composition. Explain any one method of liposome manufacturing.	05
	(c)	Enlist vegetable capsule. Explain significance of Pullulan capsule.	05
Q.5	(a)	Write a note on tamper proof packaging.	06
	(b)	Enlist types of innovation in liquid dosage form. Discuss pharmaceutical applications of Nanoemulsion.	05
	(c)	Write a note on Pulsincap Technology.	05
Q. 6	(a)	Describe recent advances in semisolid dosage form. Explain organogel.	06
	(b)	Describe evaluation of colon targeted drug delivery system.	05
	(c)	Write notes on quality control of glass containers.	05
- \	(a)	Describe formulation of ocular controlled drug delivery systems.	06
	(b)	Explain in vivo evaluation methods for GRDDS.	05
	(c)	Describe prodrug approach for colon drug delivery system.	05

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