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

GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharm. – SEMESTER – II • EXAMINATION – WINTER 2013

Subj	ject (Code: 2920102 Date: 28-11-2013	
-		Name: Novel Drug Delivery System Part-1 0.30 am - 01.30 pm Total Marks: 80	
Instr	1.	ns: Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b) (c)	Mention the modified forms of Elementary osmotic pump and explain any two. What are the basic components of Osmotic drug delivery system? Explain. Discuss the factors affecting drug release rate of Osmotic dosage forms.	06 05 05
Q.2	(a) (b) (c)	Discuss microbial triggered drug delivery to colon.	
Q.3	(a) (b) (c)	Give a brief account on effervescent type of floating drug delivery systems.	
Q.4	(a) (b) (c)	Discuss merits, demerits and limitations of trans mucosal drug delivery and permeability characteristics of oral mucosa. Write short notes on in vitro assessment of mucoadhesion. Discuss different depot types of controlled release formulation.	06 05 05
Q.5	(a) (b) (c)	Enumerate various approaches for parenteral drug delivery based on activation mechanism. Explain long acting insulin (OR) long acting steroidal preparation Give a brief account on pulsatile drug delivery system.	06 05 05
Q. 6	(a) (b) (c)	Discuss child resistant and tamper proof packaging. Explain various approaches of taste masking. Write short notes on SMEDDS.	06 05 05
Q.7	(a) (b) (c)	Define microencapsulation and detail out the coacervation phase separation techniques. Discuss novel innovations of semisolid gels. Explain the evaluation test of aerosol packaging containers.	06 05 05
