Seat No.: _____ *Enrolment No._____*

GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharmacy Sem-II Remedial Examination December 2010

Subject code: 920102

Sub. Name: Novel Drug Delivery System Part -I

Date: 18 /12 /2010 **Time: 10.30 am – 01.30 pm**

Instructions: **Total Marks: 80**

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

Q.1	(a)	Write approaches for osmotic drug delivery system.	**06**
	(b)	Discuss factors affecting on rate of drug release of osmotic dosage forms.	**05**
	(c)	Discuss for osmotic dosage forms i) advantages ii) mechanisms of drug release.	**05**
Q.2	(a)	Discuss pH dependent approach for colon targeting.	**06**
	(b)	Describe prodrug approach for colon drug delivery system.	**05**
	(c)	Write advantages of gastro-retentive drug delivery system	**05**
Q.3	(a)	Write applications of buccal & sublingual drug delivery systems.	**06**
	(b)	Write short note on: Non animal capsule shells.	**05**
	(c)	Write detail note on novel semisolid gels preparations.	**05**
Q.4	(a)	Discuss various approaches to develop parenteral controlled drug delivery system based on diffusion mechanism.	**06**
	(b)	Write short note on Rotating fluid bed coater.	**05**
	(c)	Classify packaging materials with examples.	**05**
Q.5	(a)	Describe self-emulsifying drug delivery system.	**06**
	(b)	Write a note on "Nano-suspension".	**05**
	(c)	Describe various on-line testing procedures for packaging.	**05**
Q. 6	(a)	Discuss various stability aspects of packaging.	**06**
	(b)	Discuss factors affecting selection of packaging material.	**05**
	(c)	Describe different methods for taste masking.	**05**
Q.7	(a)	Discuss regulatory aspects of packaging	**06**
	(b)	Write applications of particle coating.	**05**
	(c)	Write a short note on "formulation of floating microspheres".	**05**

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