GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM. - SEMESTER- VII • EXAMINATION - SUMMER-2016

Subject Code: 2270016 Date: 13/05/2016

Subject Name: Innovations in Conventional Drug Delivery System

Time: 2:30 PM to 5:30 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)	Explain various approaches used in developing novel ocular drug delivery system.	06
	(b)	Write a detailed note on non-animal capsule shells.	05
	(c)	Discuss various methods for preparation of nanosuspensions.	05
Q.2	(a)	Discuss various methods for parenteral DEPOT formulations.	06
	(b) (c)	Discuss novel technology in implants. Write a short note on "coacervation phase separation" of particle coating.	05 05
Q.3	(a) (b) (c)	Explain various mechanisms of gastroretentive drug delivery systems. Write a note on novel ophthalmic semisolid preparations. Discuss about the evaluation parameters of microemulsions.	06 05 05
Q.4	(a) (b) (c)	Explain the various strategies employed in taste masking of drugs. Discuss the recent innovations in parenteral packaging. Write a note on evaluation parameters of floating tablets.	06 05 05
Q.5	(a)	Discuss the principle of osmotic drug delivery systems. Classify them and write a note on controlled porosity pumps.	06
	(b)	Write a short note on basic components of osmotic drug delivery systems with examples.	05
	(c)	Describe Higuchi- Leeper pump.	05
Q. 6	(a)	Classify glass containers. Describe the evaluation tests for suitability of glass containers.	06
	(b)	Discuss the approaches to deliver intact drug molecule to colon.	05
	(c)	Describe Pulsincap Technology.	05
Q.7	(a)	What are hydrogels? Discuss the approaches to control drug delivery using hydrogels.	06
	(b)	Describe the methods to determine the mucoadhesive property of formulations	05
	(c)	Write a note on Ocusert.	05
