

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 7 EXAMINATION – SUMMER -2019

Subject Code: 2270016

Date: 20-05-2019

Subject Name: Innovations in Conventional Drug Delivery System

Time: 02:30 PM TO 05:30 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)	Give advantages and disadvantages of Fast Dispersible Tablet. How are they evaluated?	06
	(b)	Write a note on sublingual tablet.	05
	(c)	Discuss the polymers used in formulation of matrix tablet.	05
Q.2	(a)	Write a note on orodispersible tablet.	06
	(b)	Describe in detail innovation made in capsule shell.	05
	(c)	Discuss different fill materials for Hard Gelatin Capsule.	05
Q.3	(a)	Classify different types of osmotic pumps. Discuss any one in detail.	06
	(b)	Write a note on novel ophthalmic semisolid preparations.	05
	(c)	What are biodegradable polymers? Give the applications of biodegradable polymers.	05
Q.4	(a)	Enumerate different methods of Pelletization. Discuss any one method in detail.	06
	(b)	Discuss the recent innovations in parenteral packaging.	05
	(c)	Explain in detail needle free injection technology.	05
Q.5	(a)	Classify the ophthalmic innovative formulations. Write its merits against conventional dosage form.	06
	(b)	Describe various methods for preparation of nanosuspension.	05
	(c)	Describe the innovations in powder aerosols drug delivery.	05
Q. 6	(a)	Explain in detail innovation in liquid dosage form.	06
	(b)	Describe recent innovations in semi-solid dosage forms.	05
	(c)	What is microemulsion? Give the evaluation methods for microemulsion.	05
Q.7	(a)	Write a note on prefilled syringe technology for injection formulations.	06
	(b)	Write a note on pressurized metered dose inhalers.	05
	(c)	Define pellets. Discuss the innovations in pelletization technologies.	05
