Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY B.Pharm – SEMESTER VII–• EXAMINATION – SUMMER -2021

Subject Code:BP704TT Date: 06/08/2021

Subject Name: Novel Drug Delivery Systems

Time:10:30AM TO 01:30PM 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) (b)	State the physico chemical properties influencing controlled release Name the different controlled release delivery systems and differentiate one from each other	06 05
	(c)	Define: controlled, sustained, delayed, time and prolonged releases	05
Q.2	(a) (b) (c)	Classify polymers based on sources. Explain Acrylic polymers in detail Explain different methods of formulating Nanoparticles Give a brief account on biodegradable polymers	06 05 05
Q.3	(a)(b)	Differentiate microsphere and microcapsule. Explain solvent evaporation method of microsphere formulation Differentiate buccal and sublingual route. What are the basic excipients	06 05
	(c)	required for formulating transmucosal delivery? Write short notes on tests to determine bioadhesive strength.	05
Q.4	(a) (b)	Comment on suitability of drug candidates for transdermal delivery with few examples. Discuss different parameters to be evaluated for transdermal patches.	06 05
	(c)	Write short notes on Dental implants	05
Q.5	(a) (b) (c)	Give a brief account on Floating drug delivery systems. Write short notes on applications of GRDDS. How the particle size plays role in pulmonary delivery and methods of controlling the size?	06 05 05
Q. 6	(a) (b) (c)	Define Liposome. Write methods of formulating SUVs. Discuss the advantages of Targeted delivery. Discuss ALZET type of pump.	06 05 05
Q.7	(a) (b) (c)	What are the barriers of ocular delivery and methods of overcoming the same? Write short notes on contraceptive IUDs. Justify: MoAbs are targeted delivery systems.	06 05 05
