Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY B. Ph. - SEMESTER-VII - EXAMINATION - SUMMER -2022

Subject Code: BP704TT Subject Name: Novel Drug Delivery Systems Time: 02:30PM TO 05:30PM Instructions:			Date: 09/06/2022	
		:30PM TO 05:30PM Total Marks: 80	1	
	Atte Mal	empt any five questions. ke suitable assumptions wherever necessary. ures to the right indicate full marks.		
Q.1	(a) (b)	Discuss pH-partition hypothesis theory. Enlist the different physicochemical properties of the drug affecting the design of controlled drug delivery system. Explain the dissolution controlled dosage form. Write the application of polymers in formulation of controlled release drug.	06 05	
Q.2	(c) (a) (b)	Write the application of polymers in formulation of controlled release drug delivery systems. Discuss the spray drying method for the preparation of microencapsulation. Write the advantages, disadvantages and application of microsphere.	06 05	
Q.3	(c) (a) (b) (c)	Explain the principle of bioadhesion. Write the concept of implants and osmotic pump. Discuss the classification of polymer based on polymerization process. Explain the salient features of DPI and MDI.	05 06 05 05	
Q.4	(a) (b) (c)	Explain the factors affecting the drug permeation through skin. Write a note on components of TDDS. List the different approaches of GRDDS and write a note on any one.	06 05 05	
Q.5	(a) (b) (c)	Explain the concept and biological process involved in drug targeting. Differentiate Liposomes and Niosomes. Discuss the application of liposomes List the different method of preparation of nanoparticle. Explain any one in detail.	06 05 05	
Q. 6	(a) (b) (c)	Discuss the intra ocular barriers and methods to overcome it. Write the advantages of IUDs and its application. Write a note on ocuserts.	06 05 05	
Q.7	(a) (b) (c)	Write the rational and application of GRDDS. Discuss the formulation considerations of buccal delivery systems Write the application of nasopulmonary drug delivery system.	06 05 05	
