Seat No.:	Enrolment No.

**Subject Code: BP704TT** 

**Subject Name: Novel Drug Delivery Systems** 

## GUJARAT TECHNOLOGICAL UNIVERSITY B.Ph. - SEMESTER- VII EXAMINATION - WINTER -2020

Time Instru		:30AM To 12:30PM	4
1. 2. 3. 4.	Q.7 Mak	Impt any THREE questions from Q-1 to Q-6. is compulsory to attempt. It is suitable assumptions wherever necessary. It is to the right indicate full marks.	
Q.1	(a) (b)	Write a note on Dissolution and Diffusion controlled release system.  Explain Biological factors affecting the design of oral sustained release drug delivery system.	06 05
	<b>(c)</b>	Briefly describe the importance of various properties of polymers.	05
(1	(a)	What properties are required for the drug to be a candidate for Transdermal drug deliverysystem? Explain formulation of Transdermal drug delivery system.	06
	<b>(b)</b>	Describe Microencapsulation technique for particle coating.	05
	<b>(c)</b>	Define Muco adhesion. Describe the mechanisms of Bio adhesion.	05
Q.3	(a)	Discuss limitations of Buccal delivery system. Give a detail about Mucoadhesive polymers for Buccal delivery.	06
	(b) (c)	Give on account of approaches for designing of Gasro retentive dosage form. Discuss in detail the evaluation parameters for Transdermal patches.	05 05
	(a) (b)	Discuss method of preparation of Nano particles. Classify Liposomes? Why Liposomes are considered versatile carriers for parenteral drug delivery.	06 05
	(c)	Define Neosomes. Differentiate between liposomes and neosomes. Enlist various applications of Neosomes in pharmaceuticals.	05
Q.5	(a) (b)	Describe the formulation of Nasal sprays. How is it evaluated? Explain in detail the method of producing Monoclonal antibodies by Hybridoma technology.	06 05
	<b>(c)</b>	Discuss merits, demerits and application of Intra uterine devices (IUDs)	05
Q. 6	<ul><li>(a)</li><li>(b)</li><li>(c)</li></ul>	Discuss challenges of Ocular drug delivery system. Suggest their remedies. Discuss any one innovation in Implantable drug delivery system in details. Write a note on Active targeting.	06 05 05
Q.7	(a)	Discuss recent innovations in MDI (Metered dose inhaler) technology.  OR	06
	(a)	Discuss the formulation development of Osmotic tablets with example.  OR	06
	(a)	Write a note on evaluation parameters of Liposomes.	06

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Date: 08/01/2021