Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM. - SEMESTER- VII• EXAMINATION - WINTER -2022

•		Code:BP704TT	Date:29/12/2022	2
_	e: 10	Name: Novel Drug Delivery System :30am to 01:30pm s:	Total Marks: 80	0
2.	Mal	empt any five questions. ke suitable assumptions wherever necessary. ures to the right indicate full marks.		
Q.1	(a) (b) (c)	Write a note on dissolution and diffusion-controlled release Explain biological factors affecting the design of oral sustain delivery system. Define loading and maintenance dose and show its calculate sustained release formulations	ned release drug	06 05
Q.2	(a) (b) (c)	Explain principles of bioadhesion. How to determine bioadhesive strength? Enlist methods of microencapsulation and discuss any one method in detail. Classify implantable drug delivery and write in detail about osmotic pump.		
Q.3	(a) (b) (c)	Write in detail about MDI and DPI. Discuss the various approaches for floating drug delivery systems. Explain in detail, evaluation parameters of transdermal patch.		06 05 05
Q.4	(a) (b) (c)	Discuss method of preparation of nanoparticles. Discuss applications of targeted drug delivery system in brief. Justify: MoAbs are targeted delivery systems.		06 05 05
Q.5	(a) (b) (c)	Describe limitations of conventional Occular dosage forms. Explain modern approaches for the Occular drug delivery. Discuss merits, demerits and application of Intra uterine devices (IUDs). What is ophthalmic in situ gel? Describe different type of ocular inserts.		06 05
Q. 6	(a) (b) (c)	Explain non erodible and erodible control release system. Differentiate Polymer Membrane Permeation and Polymer Matrix Diffusion Controlled Drug Delivery. Write a short note on microspheres.		06 05
Q.7	(a) (b)	Write in detail about concept of implant with example. Explain the mechanism of particle deposition in pulmonary Discuss Penetration enhancer in TDDS	airway.	06 05
