Enrolment No. _____

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

Subject Code:BP704TT Date:29/12/2			ate:29/12/2022	
Subject Ivalue: Novel Drug Denvery System 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) (c)	Write a note on dissolution and diffusion-controlled release sys Explain biological factors affecting the design of oral sustained delivery system. Define loading and maintenance dose and show its calculation sustained release formulations	tem. release drug to prepare	06 05 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.		06 05 05
Q.3	(a) (b) (c)	Write in detail about MDI and DPI. Discuss the various approaches for floating drug delivery system Explain in detail, evaluation parameters of transdermal patch.	ms.	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. Ex approaches for the Occular drug delivery. Discuss merits, demerits and application of Intra uterine device What is ophthalmic in situ gel? Describe different type of ocula	plain modern s (IUDs). rr inserts.	06 05 05
Q. 6	(a) (b) (c)	Explain non erodible and erodible control release system. Differentiate Polymer Membrane Permeation and Polymer Mat Controlled Drug Delivery. Write a short note on microspheres.	rix Diffusion	06 05 05
Q.7	(a) (b) (c)	Write in detail about concept of implant with example. Explain the mechanism of particle deposition in pulmonary air Discuss Penetration enhancer in TDDS.	way.	06 05 05
