Seat No.:	Enrolment No.
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Subject Code: 2270016

GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM – SEMESTER – 7- EXAMINATION –WINTER - 2018

Date: 28/11/2018

Subject Name: Innovations in Conventional Drug Delivery System Time: 10:30 AM TO 01:30 PM Instructions:			
	2.	Attempt any five questions. Make Suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Write disadvantages of hard gelatine capsule shell. Enlist recent innovations in capsule shell, describe any one in detail.	06
	(b) (c)	Define matrix Tablets. Explain factors influencing drug release from Matrix tablet. Write a detail note on non-animal capsule shells.	05
Q.2	(a)	Discuss the principle of osmotic drug delivery systems. Classify oral ODDS and write a note on push pull pumps.	06
	(b)	Write a detail note on basic components of osmotic drug delivery systems with examples.	05
	(c)	Describe Pulsincap Technology.	05
Q.3	(a) (b) (c)	Describe various methods for preparation of nanosuspension. Write a note on polymers used in preparation of matrix tablet. Give Advantages, Disadvantages and pharmaceutical applications of pelletization.	06 05 05
Q.4	(a) (b) (c)	Write a note on prefilled syringe technology for injection formulations. Write a note on needle free injection technology. Explain various approaches used in developing novel ocular drug delivery system.	06 05 05
Q.5	(a)	Give the significance of fast dispersible tablet. Enlist techniques used in preparation of fast dispersible tablet and discuss one in detail.	06
	(b)	Discuss the merits and demerits of sublingual dosage forms. Write drug selection criteria for sublingual tablet.	05
	(c)	Write a note on innovations in powder aerosols drug delivery.	
Q. 6	(a)	What are ophthalmic inserts? Classify them. Give ideal requirements for ophthalmic inserts.	06
	(b) (c)	Discuss various methods for parenteral DEPOT formulations. Write a note on polymers used in ophthalmic drug delivery systems.	05
Q.7	(a)	What are Hydrogels? Discuss polymers used to prepare hydrogels. Give pharmaceutical applications of hydrogels.	06
	(b)	What are SMEDDS? Write a note on materials and method used to prepare SMEDDS.	05
	(c)	Enlist types of innovation in dispersed systems. Discuss pharmaceutical applications of nanoemulsion.	05
