Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY B. PHARM. - SEMESTER-VII • EXAMINATION – WINTER-2016

Subject Code: 2270016 Date: 29/11/2016

Subject Name: Innovations in Conventional Drug Delivery System

Time: 10.30 am to 01.30 pm Total Marks: 80

Instructions:

1.	Attempt	anv	five	questions.
	Litteringt	CLII Y	1110	questions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a) (b)	Describe the technologies used for preparation of fast dissolving tablets Define orodispersible tablet. Write its salient feature and benefits with its limitation	06 05				
	(c)	Discuss the polymers used in formulation of matrix tablet	05				
Q.2	(a)	Discuss the principle and mechanism of osmotic drug delivery system. Write its merits and demerits					
	(b)	Write the classification of osmotic pump and describe the elementary osmotic pump	05				
	(c)	Describe the formulation components of osmotic drug delivery system 05					
Q.3	(a) (b) (c)	Describe in detail innovation made in capsule shell Write a note on port capsule technology Describe in detail Pulsincap technology					
Q.4	(a) (b) (c)	1					
Q.5	(a) (b) (c)	Explain in detail needle free injection technology. Write a note on prefilled syringe technology for injection formulations. Explain the recent innovations in parenteral packaging.	06 05 05				
Q. 6	(a) (b) (c)	Explain in detail innovation in liquid dosage form Discuss in detail ocular insert Define microemulsion. Write down its evaluation parameters	06 05 05				
Q.7	(a)	Enlist the methods used to prepared nanosuspension and explain bottom up technology	06				
	(b)	Write a note on characterization of nanosuspension	05				
	(c)	Describe the innovations in powder aerosols drug delivery.	05				
