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Seat No.:	Enrolment No
GUJARAT TECHNO	LOGICAL UNIVERSITY
B.PHARM – SEMESTER – VII	• EXAMINATION – WINTER – 2015
Subject Code: 2270016	Date: 16/12/2015
Subject Name: Innovations in Conve	ntional Drug Delivery System
Time: 10.30 AM to 1.30 PM	Total Marks: 80
Instructions:	
1. Attempt any five questions.	
2. Make suitable assumptions whereve	er necessary.
3. Figures to the right indicate full man	rks.

Q.1 Classify different types of osmotic pumps. Discuss any one in detail. 06 (a) What are biodegradable polymers? Give the applications of biodegradable **(b)** 05 polymers. What are the basic components of osmotic drug delivery system? 05 (c) **Q.2** (a) Give the significance of fast dispersible tablet. Give the techniques used in 06 preparation of fast dispersible tablet. What is mucoadhesion? Describe different mechanisms of bioadhesion. **(b)** 05 Enlist various approaches for taste masking. Explain any one approach with 05 (c) examples. **Q.3** (a) Discuss the merits and demerits of sublingual dosage forms. How are they 06 evaluated? Enlist recent innovations in advances in capsules. Describe any one in detail. **(b)** 05 Write a note on pulsincap Technology. 05 (c) **Q.4** Explain the innovation in pelletization processes. 06 (a) What is in-situ gel? Discuss various approaches of in-situ gelation. 05 **(b)** What is liposome? Enlist the material used for preparation of liposome. Write (c) 05 about any one method of preparation. **Q.5** Write a note on prefilled syringe technology for injection formulations. 06 (a) Write a note on needle free injection technology. 05 **(b)** Write a note on erodible occusert. 05 (c) Discuss the limitations of conventional ocular dosage forms. **Q.** 6 06 (a) Write a note on innovations in powder aerosols drug delivery. **(b)** 05 Describe the recent innovations in liquid solution. (c) 05 **Q.7** (a) Enlist types of innovation in liquid dosage form. Discuss pharmaceutical 06 applications of nanoemulsion. What is microemulsion? Give the evaluation methods for microemulsion. 05 **(b)**

Describe various methods for preparation of nanosuspension.

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