

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm – SEMESTER VII • EXAMINATION – SUMMER-2017

Subject Code: 2270016

Date: 10/05/2017

Subject Name: Innovations in conventional Drug Delivery System

Time: 02:30 PM to 05:30 PM

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) What are ophthalmic inserts? Classify them. Give ideal requirements for ophthalmic inserts	06
	(b) Write a note on polymers used in ophthalmic drug delivery systems	05
	(c) What is insitu Gel? Discuss different approaches for insitu Gelation	05
Q.2	(a) Classify Osmotic Drug Delivery Systems. Discuss controlled porosity osmotic pump	06
	(b) Write a note on Evaluation of osmotic drug delivery systems	05
	(c) Discuss various methods for preparation of nano-suspensions	05
Q.3	(a) Enumerate different methods of Pelletization. Discuss any one method in detail	06
	(b) What are SMEDDS? Write a note on materials used to prepare SMEDDS	05
	(c) Differentiate Microemulsion and Multipul emulsion	05
Q.4	(a) What are parenterals? Give advantages of recent innovation in parenteral dosage forms	06
	(b) Write a note on DEPOFORM	05
	(c) What are Aerosols? Give advantages and disadvantages of Aerosolized Medicine	05
Q.5	(a) Enlist different innovations in capsule shells. Give uses and advantages of vegetarian materials as capsule shell	06
	(b) Discuss different fill materials for Hard Gelatin Capsule	05
	(c) Write a note on Auto-injector	05
Q. 6	(a) What are hydrogels? Discuss polymers used to prepare hydrogels. Give pharmaceutical applications of hydrogels	06
	(b) Write a note on pressurized metered dose inhalers	05
	(c) Give Advantages, Disadvantages and pharmaceutical applications of pelletization.	05
Q.7	(a) Give advantages and disadvantages of Fast Dispersible Tablet. How are they evaluated?	06
	(b) Write a note on Matrix Tablet	05
	(c) Write a note on Enterion Capsule	05
