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GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM. – SEMESTER VIII– • EXAMINATION – SUMMER 2017

Subject Code: 2280016 Date: 09/05/2017

Subject Name: Current Advances in Novel Drug Delivery Systems

Time: 10:30 AM to 01:30 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) (b) (c)	What are different possible designs of Transdermal therapeutic systems? What are Nanoparticle? Explain its method of preparation. Write a note on Novel liposome.	06 05 05
Q.2	(a) (b) (c)	Write a note on different techniques of Pelletization. Give the difference between Liposomes and Niosomes Explain the Temperature Sensitive <i>In-situ</i> gelation process	06 05 05
Q.3	(a) (b) (c)	Enlist different methods used to prepare Microsphere and explain any one method in detail. Write a note on characterization of Liposomes. Write a short note on Diskette.	06 05 05
Q.4	(a) (b) (c)	Write a note on <i>In-vitro</i> release of Nanoparticle. Explain how drug particles are targeted to Macrophages. Write a short note on Sonophoresis.	06 05 05
Q.5	(a) (b) (c)	How Transdermal Systems are tested <i>In-vitro</i> for drug delivery and absorption? Explain the evaluation techniques of Self Emulsifying Drug Delivery System. Write a short note on Microcapsules.	06 05 05
Q. 6	(a) (b) (c)	What is Mucoadhesive film? Classify them and discuss in brief about evaluation parameters. Describe evaluation parameters of Self emulsifying drug delivery system. Explain different method of characterization of Microsphere in detail.	06 05 05
Q.7	(a) (b) (c)	Define Niosomes. Explain different methods of preparation of Niosomes. Define Liposomes. Classify them and list their advantages. Explain the selection procedure of excipients in self emulsifying drug delivery systems.	06 05 05
