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## **GUJARAT TECHNOLOGICAL UNIVERSITY** B.PHARM – SEMESTER – 8- EXAMINATION –WINTER - 2018

Subject Code:2280016

Date: 28/11/2018

Subject Name: Current advances in Novel Drug Delivery SystemsTime:02:30 PM TO 05:30 PMTotal 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 liposomes? Discuss thin film hydration method in detail. Differentiate Liposomes and Nanoparticles. Explain stealth liposomes.	06 05 05
Q.2	(a) (b) (c)	What is multiparticulate drug delivery? Explain techniques of pelletization. Enlist methods of preparation of niosomes. Describe any one in detail. Differentiate microspheres & microcapsules. Explain double emulsification method.	
Q.3	(a) (b) (c)	How Transdermal Systems are tested In-vitro for drug delivery and absorption? Discuss factors consideration related to drug & excipients selection in TDDS. Discuss design and applications of Iontophoretic drug delivery system.	
Q.4	(a) (b) (c)	What is mucoadhesion? What are characterization parameters for it? Explain the termsFilms, Patches, Diskette, strips. Describe significance of minitablets in oral drug delivery system.	
Q.5	(a) (b) (c)	Explain the evaluation techniques of Self Emulsifying Drug Delivery System. Explain the selection procedure of excipients in self emulsifying drug delivery systems. Describe types of excipients used in preparation of SEDDS.	06 05 05
Q. 6	(a) (b) (c)	Define Insitu gel. Discuss various approaches of insitu gel preparation. Explain the Temperature Sensitive In-situ gelation process Write a note on Transdermal patch.	06 05 05
Q.7	(a) (b) (c)	Write a note on In-vitro release of Nanoparticle. Write a short note on Sonophoresis. Classify liposomes based on their structure. Describe merits and demerits of liposomes.	06 05 05

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