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## GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER - 8 EXAMINATION - SUMMER -2019

Subject Code: 2280016 Date: 18-05-2019

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)	Classify liposomes. Describe merits and demerits of liposomes. Describe pharmaceutical applications of liposomes.	06
	(b) (c)	Explain evaluation parameter of niosomes.  Write the difference between Liposomes and Niosomes.	05 05
Q.2	(a) (b) (c)	Enlist the method for microcapsules and explain coacervation method. Explain solvent evaporation method for preparation of microspheres. Write a note on characterization of pellets.	06 05 05
Q.3	(a) (b)	What is sonophoresis? Describe in detail Sonophoresis.  Describe merits and demerits of iontophoresis. Discuss factor affecting Iontophoretic drug delivery system.	06 05
	(c)	Which drug is ideal candidate for TDDS? Discuss formulation composition use in Transdermal drug delivery systems.	05
Q.4	(a)	Enlist the therories of mucoadhsion. Write the mechanism of mucoadhsion. Explain <i>in vitro</i> evaluation bioadhesion test of film.	06
	(b) (c)	Explain in detail evaluation parmater of Mucoadhesive patches. Write a short note on Diskette.	05 05
Q.5	(a)	Enumerate different type of Nanoparticulate drug delivery system. Explain method to prepared nanoparticle by polymerization based method.	06
	<b>(b)</b>	Describe evaluation parameters of nanoparticles.	05
	<b>(c)</b>	Describe pharmaceutical applications of nanoparticles.	05
Q. 6	(a)	Why is called Self emulsifying system? Write pharmaceutical applications of SEDDS.	06
	<b>(b)</b>	Describe the selection procedure of excipients in self emulsifying drug delivery systems.	05
	<b>(c)</b>	Describe evaluation parameters of SEDDS.	05
Q.7	(a) (b) (c)	What is In situ gel? Explain various approaches of insitu gel preparation. Explain evaluation parameter for In situ gels. Enumerate different type of Transdermal patch. Describe the composition of transdermal film.	06 05 05

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