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## GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM. – SEMESTER VIII– • EXAMINATION – WINTER-2020

Subject Code: 2280016 Date: 16/01/2021

Subject Name: Current Advances in Novel Drug Delivery System

Time: 02:00PM TO 04:00PM Total Marks: 54

**Instructions:** 

- 1. Attempt any THREE questions from Q-1 to Q-6.
- 2. Q.7 is compulsory to attempt.
- 3. Make suitable assumptions wherever necessary.
- 4. Figures to the right indicate full marks.

Q.1	(a) (b) (c)	Write a note on characterization of Liposomes.  Discuss on Characterization and Evaluation of Microcapsules.  Explain nanoparticulate drug delivery system.	06 05 05
Q.2	(a) (b)	Differentiate film and diskette. Discuss methods of preparation of diskette. Discuss rational, applications and limitations of mucoadhesive drug delivery systems.	06 05
	<b>(c)</b>	Explain air suspension technique for Microencapsulation	05
Q.3	(a) (b) (c)	Enumerate methods used for preparation of liposome. Discuss any one in detail. Discuss the design of transdermal drug delivery system.  Write a short note on "formulation of floating microspheres".	06 05 05
Q.4	(a) (b) (c)	Describe evaluation parameters of SEDDS.  Write a note on polymerization based method of nanoparticles preparation.  Explain different method of characterization of Microsphere in detail.	06 05 05
Q.5	(a) (b) (c)	Define Niosomes. Explain different methods of preparation of Niosomes. Explain in detail evaluation methods for mucoadhesive drug delivery. Discuss formulation of Self emulsifying drug delivery system.	06 05 05
Q. 6	(a)	Explain the selection procedure of excipients in self emulsifying drug delivery systems.	06
	(b) (c)	Discuss the problems associated with liposomes drug delivery system.  Give design and applications of Iontophoretic drug delivery system.	05 05
Q.7	(a)	Define Pellet. Give the advantage and Disadvantage. Explain any one method. <b>OR</b>	06
	(a)	Discuss pH and Glucose sensitive approaches for In-situ gels.  OR	06
	(a)	Give advantages of using sonophoresis as a physical penetration enhancer	06

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