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GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM - SEMESTER- 8 EXAMINATION - SUMMER -2020

Subject Code: 2280016

Date:29-10-2020

Subject Name: Current advances in Novel Drug Delivery Systems **Total Marks: 80** Time: 10:30 AM TO 1:30 PM Instructions:

- 1. Attempt any five questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Enlist the polymers used in Nanoparticles preparation. Explain Polymerization method of preparing Nanoparticles.	06
	(b) (c)	Describe the pharmaceutical applications of Nanoparticles. How do you characterize the Nanoparticles?	05 05
Q.2	(a)	Define Liposomes. Classify according to structure and explain the evaluation methods.	06
	(b)	List out the methods of preparing Liposomes and explain Thin film Hydration method.	05
	(c)	Differentiate Liposomes and Niosomes.	05
Q.3	(a) (b) (c)	Explain the suitability of Drugs for formulating TDDS with examples. Discuss Design and applications of Iontophoretic delivery system. Describe the composition of Transdermal patch.	06 05 05
Q.4	(a) (b)	Explain the methods of evaluating Mucoadhesive strength. Discuss the rationale, applications and limitations of mucoadhesive drug delivery systems.	06 05
	(c)	Differentiate i) Iontophoresis and Sonophoresis ii) Film and Diskette	05
Q.5	(a)	Define Pellet. Give the advantages and disadvantage. Explain any one method of preparation.	06
	(b) (c)	Enumerate excipients used in Self Emulsifying Drug Delivery Systems. Differentiate Microsphere and Microcapsule. Characterize the microsphere.	05 05
Q. 6	(a) (b) (c)	Give a brief account on In-situ gelation. Write short notes on Bioadhesive polymers. What is the rationale behind in formulating Minitablets? Explain.	06 05 05
Q.7	(a) (b) (c)	Discuss theories of Bioadhesion. State the need for formulating SEDDS and methods of evaluation. Explain solvent evaporation method of preparing Microsphere.	06 05 05
