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GUJARAT TECHNOLOGICAL UNIVERSITY B. Ph. SEMESTER- VII • EXAMINATION - WINTER -2020

Subject Code: 2270016

Date:16/01/2021 Subject Name: INNOVATIONS IN CONVENTIONAL DRUG DELIVERY SYSTEM Time: 10:30AM To 12:30PM **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)	Enlist the techniques used in preparation of fast dispersible tablet and discuss any one in details.	06
	(b) (c)	Enlist advantages and disadvantages of Sublingual drug delivery system What are the basic components of osmotic drug delivery system?	05 05
Q.2	(a)	Enlist various methods for preparation of nanosuspension and discuss any one in details.	06
	(b) (c)	Enlist recent innovations in advances in capsules. Describe any one in detail. Define the term pellets. Explain the innovation in pelletization processes.	05 05
Q.3	(a) (b) (c)	Enlist advantages, disadvantages and limitations of fast dispersible tablet. Write a note on pulsincap Technology. Enlist the advantages and disadvantages of pellets.	06 05 05
Q.4	(a)	Discuss the principle and mechanism of osmotic drug delivery system. Write its merits and demerits.	06
	(b) (c)	What is prefilled syringe? Write its advantages and disadvantages. Write a note on Extruded product spheronizing process.	05 05
Q.5	(a) (b) (c)	Write a note on materials used for prefilled syringes. Enlist various approaches of in-situ gelation and discuss any one in detail. Describe the innovations in powder aerosols drug delivery.	06 05 05
Q. 6	(a)	What is needle free injection technology? Write its advantages and	06
	(b)	disadvantages. Differentiate between Microemulsion and Macroemulsion giving suitable example.	05
	(c)	Enlist various characteristics of SEDDSs.	05
Q.7	(a)	Describe the any one recent innovations in Emulsion. OR	06
	(a)	Discuss the limitations of conventional ocular dosage forms.	06
	(a)	OR Discuss in detail ocular insert.	06
