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

Subject Code:2280001 Subject Name: Dosage form Design II Time:02:30 PM TO 05:30 PM **Instructions:**

Date: 15/11/2018

Total Marks: 80

1. Attempt any five questions.

- 2. Make Suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a) (b)	Give the difference between conventional and controlled release system. Describe the advantages and limitations of sustained release formulations. Write a note on dissolution and diffusion controlled release system.	06 05
	(c)	Explain in detail evaluation of oral controlled release formulations.	05
Q.2	(a) (b) (c)	Discuss in detail the evaluation parameters for Transdermal patches. Write a note on colon targeted drug delivery system. Discuss the various approaches for floating drug delivery systems	06 05 05
Q.3	(a)	Write advantages of gastro-retentive drug delivery. Explain expandable	06
	(b)	approach. Explain liposomes and niosomes. Describe any one method for their preparation.	05
	(c)	Discuss the formulation development of osmotic tablets with example.	05
Q.4	(a) (b) (c)	What are pharmacokinetic models? Explain in detail one compartment model. Explain Wagner nelson method in detail. Describe the method of residuals for determination of absorption rate constant.	06 05 05
Q.5	(a)	Define Cmax, Volume of distribution, compartment model, Total clearance and Clinical pharmacokinetics.	06
	(b)	Explain dosage adjustment in patients with hepatic failure.	05
	(c)	Explain term: Drug interaction. Discuss ADME drug interactions with suitable examples.	05
Q. 6	(a)	Enlist different types of targeted drug delivery system and explain any one in detail.	06
	(b) (c)	Discuss in detail about PULSINCAP Technology. Write a note on: Microspheres.	05 05
Q.7	(a) (b) (c)	Explain clinical pharmacokinetics? Enlist its applications in drug therapy. What are loading and maintenance dose? How are they calculated? Write a short note on Hydrogel.	06 05 05
