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

Subject Code: 2280001 Date: 04-05-2019

Subject Name: Dosage form Design II

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)	Explain biological factors affecting the design of oral sustained release drug delivery system.	06
	(b) (c)	Write note on Bio erodible controlled drug delivery system. Discuss various causes for non linearity of drug	05 05
Q.2	(a) (b)	Explain effect of porosity and tortuosity on controlled drug delivery system. Explain "Drug interaction" Discuss ADME drug interaction with suitable example	06 05
	(c)	Define clinical pharmacokinetics. Explain methods for the calculation of creatinine from serum creatinine concentration.	05
Q.3	(a) (b) (c)	Explain dosage adjustment in patients with renal and hepatic failure. Discuss in brief about PULSINCAP technology Write merits of non compartmental analysis. Explain AUC & AUMC plots.	06 05 05
Q.4	(a) (b) (c)	Give criteria for obtaining valid urinary excretion method. Write a note on hydrogel Explain the method of residuals for the calculation of absorption rate constant from oral data.	06 05 05
Q.5	(a) (b) (c)	Discuss the formulation of parenteral emulsion and suspensions. Discuss extraction ratio and hepatic clearance in detail. Explain michaeles menten equation.	06 05 05
Q. 6	(a) (b) (c)	Explain non erodible and erodible ocular control release system. Write note on matrix tablets. Write fundamental and rational of modified release drug delivery system.	06 05 05
Q.7	(a) (b) (c)	Give on account of approaches for designing of gasro retentive dosage form. Give advantages and disadvantages of compartment modeling. Describe floating drug delivery system.	06 05 05
