0.5

Q. 6

(a)

(b)

(c)

(a)

(c)

form oral data.

Write a note on: Hydrogel.

targeted drug delivery system.

Seat	Nο		
Scat	TNO.		

Subject Code: 280001

Time: 02:30 pm - 05:30 pm

Subject Name: Dosage Form Design - II

Enrolment No.

Date: 18-11-2016

Total Marks: 80

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. - SEMESTER - VIII • EXAMINATION - WINTER • 2016

I	nstru	 Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q.1	(a)	Enumerate the factors affecting the designing of oral sustained release drug delivery systems and explain any one in detail.	06
	(b)	What is the major objective of controlled drug delivery system? Give advantages and disadvantages of such a system	05
	(c)	Write a note on dissolution and diffusion controlled release system	05
Q.2	(a) (b)	Write a note on buccal drug delivery systems. Explain loading dose and maintenance dose used in controlled release formulation	06 05
	(c)	Describe the various approaches for colon targeted drug delivery system	05
Q.3	(a) (b) (c)	Describe osmotic pressure controlled systems in brief. Discuss the Evaluation methods for Transdermal drug delivery systems. Describe liposomes as a drug delivery system in brief.	06 05 05
Q.4	(a) (b) (c)	Describe development of ocular controlled drag delivery systems. Describe various methods for preparation of Nanosuspension Give an account of approaches for designing of gastro retentive dosage forms.	06 05 05

Q.7 (a) Define "Drug interaction". Explain pharmacokinetic drug interactions giving suitable examples.
(b) Define clearance, total body clearance and organ clearance. What is extraction ratio?

Explain the various evaluation parameters for gastro retentive and colon

Explain dosage adjustment in patients with renal and hepatic failure.

Give the criteria for obtaining valid urinary excretion method.

Menten equation for capacity limited process.

Explain the method of residuals for the calculation of absorption rate constant

Explain how one can detect nonlinear pharmacokinetics? Explain Michaelis

(c) What are pharmacokinetic models? Explain any one compartment model in details.

06

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