C.U.SHAH UNIVERSITY Winter Examination-2018

Subject Name: Pharmaceutical Dosage Form Design IISubject Code: 4PS08DFD1Branch: B.Pharm

	Semester	: 8 Date: 22/10/2018	Time: 10:30 To 01:30	Marks: 70
	Instruction (1) U (2) I (3) I (4) A	ns: Use of Programmable calculator & a nstructions written on main answer Draw neat diagrams and figures (if n Assume suitable data if needed.	iny other electronic instrument is pr book are strictly to be obeyed. necessary) at right places.	ohibited.
Q-1	a) b) c) d) e) f) g) h) i) j) k) l) m) n) mpt any f	Define the following terms Distribution coefficient Volume of distribution Clearance Total body clearance Organ clearance Extraction ratio Absorption rate constant Total body clearance Loading dose Maintenance dose Sol to gel system Nanoparticles Permeation enhancer Elimination half-life our questions from Q-2 to Q-8		(14)
Q-2		Attempt all questions		(14)
Q-3	a. b. a.	Explain in detail: Ideal requirement Write a note on matrix based contract Attempt all questions Enlist different approaches for form system and explain any two of the	nts for sustained release formulation colled drug delivery system mulation of colon targeted drug deli	is (7) (7) (14) ivery (7)
Q-4	b. a.	Write a note on buccal drug delive Attempt all questions Explain gastro retentive drug delive	ery systems.	(7) (14) (7)
Q-5	b.	Explain osmotic pressure controlle Attempt all questions	ed drug delivery system	(7) (7) (14)
Q-6	a. b. a.	Write a note on ophthalmic contro Differentiate between microsphere Attempt all questions Explain pharmacokinetics, Explain	lled release systems es and micro capsules a a typical plasma level time curve a	(7) (7) (14) after single (7)



		oral dose	
	b.	What are pharmacokinetic models? Explain in detail compartment models	(7)
Q-7		Attempt all questions	(14)
	a.	Write a note on Wagner Nelson method	(7)
	b.	Which processes of drug ADME are known to show non linearity? Explain giving suitable examples	(7)
Q-8		Attempt all questions	(14)
•	a.	Define Clinical Pharmacokinetics and Describe its scope.	(7)
	b.	Explain term: Drug interaction. Discuss ADME drug interactions with suitable example.	(7)

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