Sardar Patel University

M. Sc. Pharmaceutical Chemistry, Fourth Semester Examination Monday, 18th March, 2019 02:00 p.m. - 05:00 p.m.

PS04CPCH21: Novel Drug Delivery

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1.	Figures	to	the	right	indicate	marks.
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2.	Dra	w neat and labeled	d diagram, where	ver necessary.	
Q-1	Atte	empt the followings	S		[08 X 01 =0
	1.	continuous suppl	ly over an extende	use slowly and ed period of time is	to provide o
-		a) Extended releac) Prolonged relea	se	b) Delayed relea	ase
	2.	Which of the pharmaceutical a system	following is tapproaches for c	the design consontrolled release	sideration of drug delivery
v		a) Matrix dissolutc) Encapsulation	ion control dissolution contro	b) Membr ol d) All	ane material
	3.	Which of the foll system? a) Sub reservoir		fusion controlled	
-	4.	Therapeutic com candidates for sus a) <8 hr	pounds with ha	lf-life.	d) All are excellent d) 0 hr
	5.	Transdermal dru drugs. a) Anion	g delivery appro b) Cation	ach cannot deliv	er
	6.	Physicochemical e a) Thickness c) Drug content	evaluation for trar	nsdermal patches b) Uniformity of d) All of the above	involves weight
	7.	Parenteral control a) Accidental relea b) Simple to admir c) Mechanically st d) All	use nister and remove	system is safe from	
	8.	Tablets are often of a) To protect the d b) To mask bitter t c) To increase frial d) To make swallow	irug irom the exte tastes bility	cause of the follow rnal environment	ving reasons.

Q-2	AII	swer the following questions (Any seven). [07 X 02	= 141					
	1.	Classify the sustained release drug delivery system.	1,1					
	2.	What is repeat action?						
	3.	Enlist physicochemical properties of drugs.						
	4.	State advantages of pulsatile drug delivery system.						
	5.	Enlist disadvantages of controlled drug therapy.						
	6.	What is first pass effect?						
	7.	State the limitations of oral route of drug administration?						
	8.	Enlist factors affecting transdermal bioavailability.						
	9.	State desired properties for penetration enhancers.						
Q-3	(A)	Discuss the medical rationale for control release drug delivery system.	[06]					
	(B)	Advantages and disadvantages of sustained release drug delivery system	[06]					
	(B)	OR						
	(13)	Write a note on chitosan as a control release of drug	[06]					
Q-4	(A)	Explain Biological Factors Influencing the Design and Performance of Sustained Release Products.	[06]					
	(B)	Enlist technologies for drug delivery system. Explain any three in detail.	[06]					
	(B)	OR What is controlled drug therapy? State the potential advantages of CDT.	[06]					
Q5	(A)	Explain the novel drug delivery system with special reference to parenteral route of drug administration.	[06]					
	(B)	Discuss the factors for the drug administration.	[06]					
	(B)	What are the advantages and disadvantages for topical route of	[06]					
		drug administration	` .					
Q6	(A)	Explain transdermal patches in detail. State advantages and limitations for the TDDS.	[06]					
	(B)	What is drug target? Explain different approaches.	[06]					
		OR	[-0]					
	(B)	Explain site specific drug delivery system in detail.	[06]					

