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SARDAR PATEL UNIVERSITY

SEMESTER EXAM, M.Sc. INDUSTRIAL CHEMISTRY

SEMESTER -3, PS03CICH09-PHARMACEUTICAL TECHNOLOGY

27-10-2016, Thursday, TIME: 02:00 p.m to 5:00 p.m

Total Marks: 70

Note: Attempt all questions. Draw neat and label	ed diagram where ever necessary. Figures on the right show
marks.	
	. 4/
Q.1. Answer the following MCQs.	(08)

					, , , , , , , , , , , , , , , , , , , ,	
1	levels of dru	g is required to	mainta	in in the blood strear	n for effectiveness	
A. Toxic	B. Critical	C. Therapeuti	С	D. All of these		
2.	dosage form i	s used for topic	al appli	cations		
A. Solid	B. Semi solid	C. Nasal	D. Op	thalmic		
3. ln	coated tabl	ets weight incre	ases b	y 50%		
A. Sugar	B. Compressio	n C. Film	D. Wr	apped		
4	is a type of	liquid dosage fo	orm			
A. Lozenges	s B. Elixir	C. cream	D. Ge	1 -		
5	is used as a	lubricant in tabl	ets.			
A. Cellulose	B. Starch	C. Citric acid		D. Magnesium stea	arate	
6. The drug	concentrations,	released from o	ontrolle	ed released dosage	forms fluctuate within the	
A. Mini.effed	ctive level	B. Therapeution	c level	C. Toxic level	D. All of these	
	are preferred njection) adminis		peptid	le/protein for the con	trolled drug delivery in place of	
A. Tablet	B. Capsule	[©] C. Microspher	e e	D. Lotion		
8	is the first ste	p in the rational	develo	pment of a dosage f	form.	
A. Preformu	lation B Fo	mulation	C Ph	armacokinetics	D. Pharmacodynamics	

Q.2 Answer the following short questions (Any 7)	(14)
Differentiate between drug and Pharmaceutical.	
2. Enlist the various methods of treating illness.	
3. Differentiate between type A and type B gelatin.	
4. Differentiate between controlled released dosage form and normal dosage form	
5. What is effervescent tablet?	
6. Define gels	
7. What are excipients?	
8. What is Glidant? give example.	
9. What is elixir?	
Q.3 (a) What is solid dosage form? Discuss the advantages of tablets as a solid dosage form lozenges and chewable tablets.	and also explain (06)
Q.3 (b) What is capsule? Discuss the types of capsules and their manufacturing process.	(06)
OR	
Q.3 (b) What are semi-solid dosage forms? Explain their role in drug delivery and also discuss creams.	ointments and (06)
Q.4 (a) What are controlled release dosage forms? Discuss their rationale and enlist their vari	ous types. (06)
Q.4 (b) Discuss various methods for peptide/protein-loaded microsphere production.	(06)
OR	•
Q.4 (b) What is microencapsulation? Discuss various methods of encapsulation in brief.	(06)
Q.5 (a) Explain preformulation studies. Discuss preformulation studies with respect to Physica of a drug substance in brief.	l characteristics (06)
Q.5 (b) Write a note on Tableting cycle.	(06)
OR	
Q.5 (b) Discuss rotary punch Tableting machine and highlight the main differences of single p punch tableting machines.	unch and rotary (06)
Q.6 (a) What is GMP? Describe its guideline in brief.	(06)
Q.6 (b) What is GLP? Describe its guideline in brief.	(06)
OR	
Q.6 (b) What is validation? Explain various types of validation.	(06)
xxGood Luck xx	x Page 2
