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	ı	M.Pharmacy(Industrial Pharmacy) (2017 Batch) (Sem.–2) NCED BIOPHARMACEUTICS AND PHARMACOKINETIC Subject Code: MIP-201T M.Code: 74931	s	
Time: 3 Hrs. Max. Mar				
INST 1. 2.	Atte	CTIONS TO CANDIDATES : empt any FIVE questions out of SIX questions. th question carries FIFTEEN marks.		
Q.1	a.	Name various theories explaining drug dissolution and enlist the factors affect dissolution rate.	ting 8	
	b.	Discuss the limitations and significance of pH-partition hypothesis.	7	
Q.2		iscuss various methods used for bioavailability enhancement by enhancing permeability fdrugs.		
Q.3	a.	What are merits and demerits of Wagner-Nelson method in computing Ka?	5	
	b.	What is flip-flop phenomenon and when is it observed?	5	
	c.	Elaborate the type of compartmental models. Why catenary model is less useful th mammillary model?	en 5	
Q.4	a.	What are various types of bioequivalence studies?	8	
	b.	State the plateau principle. Which parameters govern attainment of steady-state?	7	
Q.5	W	rite short notes on the following:		
	a.	Discuss the pharmacokinetics of modified-release drug products.	8	
	b.	What are the various compendial dissolution apparatus designs? Discuss bri stating their applications.	efly 7	
Q.6	Di	scuss the following with suitable examples :		
	a.	Statistical moments theory.	5	
	b.	Cross over & carry over study design .	5	
	c.	Plasma half life (t _{1/2}), AUC & AUMC.	5	
NOT	E : I	Disclosure of Identity by writing Mobile No. or Making of passing request on page of Answer Sheet will lead to UMC against the Student.	any	
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