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FACULTY OF PHARMACY

M. Pharmacy (Pharmaceutics) II-Semester (PCI) (Main) Examination, August 2018

Ti	Subject: Advance Biopharmace. & Pharmacokinetics me: 3 Hrs Max. Marks	: 75
	Note: Answer any five questions. All questions carry equal marks.	
1	(a) Derive expressions for c_{max} and t_{max} for one compartment open model, expressions administration.	tra (8)
	(b) Explain with examples cytochrome p450 based drug interactions.	(7)
2	(a) What are the different methods for assessment of bioavailability?(b) What are the special concerns in bioavailability and bioequivalence studies.	(8)
		(7)
3	(a) Write the significance of different volumes of distribution in two compatme model.(b) Write a note on volume of distribution and clearance.	ent (5) (10)
4	(a) Explain varis methods to study drug permeability.(b) Write abt IVIVC.	(7) (8)
5	(a) Derive Michaelis-Menten equation. How do y estimate K $_{\rm m}$ and V $_{\rm m}$. (b) How do y compare dissolution profiles?	(10) (5)
6	(a) Explain the applications of pharmacokinestic principles in controlled released dosage forms.(b) Write a note on micro climate intracellular pH and tight junction complex.	se (8) (7)
7	(a) Enumerate physicochemical factors of the drug affecting dissolution.(b) Explain the kinetics of IV infusion for one compartment model.	(7) (8)
8	(a) Explain varis cross over designs in bioequivalence studies.(b) Write in detail abt compartment models.	(7) (8)