Code No: B134201   **R13**   SET - 1

IV B. Pharmacy II Semester Adv.Supplementary Examinations, July - 2017
BIOPHARMACEUTICS AND PHARMACOKINETICS

Time: 3 hours   Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answering the question in **Part-A** is Compulsory
3. Answer any **THREE** Questions from **Part-B**
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PART –A

1.	a)	Write about characteristics of active transport. (4M)
	b)	Discuss about plasma protein binding sites. (3M)
	c)	Give a brief account on Loo-riegleman method. (4M)
	d)	What are Non-linear kinetics? Give suitable examples. (4M)
	e)	What are clinical pharmacokinetics? Give its significance. (3M)
	f)	Compare single dose vs multiple dose BA-BE studies. (4M)

PART -B

2. a) Discuss about dosageform factors influencing on drug absorption. (10M)
   b) Explain passive diffusion of drugs. (6M)

3. a) Explain role of physiological barriers in drug distribution (12M)
   b) What is the influence of various diseases states on plasma protein levels and drug binding? (4M)

4. a) Explain about Wagner-Nelson method. (10M)
   b) Define apparent volume of distribution. Give its significance. (6M)

5. a) Give an account on Michales-Menten equation. (8M)
   b) What criteria is necessary for obtaining valid urinary excretion data? Compare sigma minus and rate excretion method. (8M)

6. a) Discuss about dose adjustment in patients with renal failure. (8M)
   b) Write short notes on pharmacokinetic drug interactions affecting drug absorption. (8M)

7. a) Write about Bioavailability study designs. (10M)
   b) Give a brief account on invitro-invivo correlations. (6M)