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Total No. of Questions : 8] *[Total No. of Printed Pages : 2*

Roll No .....

PY-604 (CBGS)

B.Pharmacy VI Semester (Non-PCI Scheme)

Examination, May 2019

Choice Based Grading System (CBGS)

Biopharmaceutics and Pharmacokinetics

Time : Three Hours

Maximum Marks : 75

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. What are different factors affecting drug absorption through GIT? Explain Physiological factors in detail with special emphasis on pH-Partition Hypothesis. 15

2. Define tissue permeability and protein binding of drug. What are different binding sites of HSA? What are factors affecting and kinetics of protein binding with effect on Volume of distribution. 15

3. What are different phases of metabolism? What are different pathway and factors affecting renal excretion of drugs? 15

4. Define Bioavailability and bioequivalence. What are different methods for assessment of bioavailability? Define IVIVC and in-vitro drug dissolution models. 15

5. Define Compartment modeling. Derive Pharmacokinetic equation for one compartment Open IV model. 15

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6. What is non linear Pharmacokinetics/ What are causes of non-linearity? Define Michaelis menten equation for non-linear pharmacokinetics. 15

7. What are different mechanisms of Drug absorption? Which mechanism is appropriate for water-soluble low molecular weight drugs? 15

8. Short notes on (any two) 7.5 each
   a) Non renal route of drug elimination
   b) Methods to enhance bioavailability
   c) Kinetics of Multiple dosing

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