

[LI 342]

APRIL 2016

Sub. Code: 2903

**M.PHARM. DEGREE EXAMINATION  
FIRST YEAR  
BRANCH I – PHARMACEUTICS  
PAPER III – BIOPHARMACEUTICS AND PHARMACOKINETICS**

*Q.P. Code : 262903*

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain the Physiological and Physiochemical factors affecting Drug Absorption.
2. Describe Protein Binding with respect to drug distribution and effect.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Mention the factors affecting Bio Transformation. Explain any one method.
2. Add a note on Renal Excretion. Explain any one process.
3. Derive the equation for open two compartment model.
4. Describe total body clearance and organ clearance.
5. Write about the Bioavailability enhancement techniques.
6. Explain Biopharmaceutical classification system.
7. Write the concept behind therapeutic drug monitoring.
8. Write the principle behind intravenous multiple dosing.
9. Explain pharmacokinetic variability with respect to body weight and genetic factor.
10. Write about drug – food interaction.

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