

[LG 342]

APRIL 2015

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. a) Write about the biological factors affecting drug absorption.
b) Mention an *In vitro* and *In vivo* method for determining drug absorption.
2. a) Derive Michaelis Menten equation.
b) Describe about *In Vitro* and *In vivo* correlation method.

II. Write notes on:

(10 x 6 = 60)

1. Differentiate Active and Passive transport.
2. Write about placental drug distribution.
3. Explain any two phase II reaction with example.
4. Describe Non renal excretion.
5. Explain first order kinetics.
6. Explain Area under first moment curve and mean residence time.
7. Specify the CDSCO protocol for bioequivalence study.
8. Write the concept involved in pharmacokinetic modeling.
9. Mention the concept behind multiple dosing in oral administration.
10. Describe the dosage adjustment procedure during cardiovascular and liver disorders.
