

Total No. of Questions : 4]

SEAT No. :

P3997

[Total No. of Pages : 1

[5246]-225

M. Pharmacy

**CLINICAL PHARMACOKINETICS AND
PHARMACODYNAMICS**

(2013 Pattern) (Credit System)

Time : 3 Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) *Question No.1 is compulsory.*
- 2) *Draw neat labelled diagrams wherever necessary.*
- 3) *Figures to the right indicate full marks.*

Q1) Describe compartment modelling with its assumptions. Add a note on one compartment model. **[10]**

Q2) Answer the following (any Three) **[15]**

- a) Describe the method for determination of V_{max} and K_m .
- b) Explain the implications of multiple drug regimens in drug therapy.
- c) Explain the significance of half life of drug in elimination.
- d) Explain an initiating and managing therapy as individualization.

Q3) Write note on following (any Three) **[15]**

- a) Wagner-Nelson method
- b) Area under curve
- c) pH partition hypothesis
- d) Hepatic clearance

Q4) Attempt any one **[10]**

Elaborate effect of metabolites on drug response.

OR

How plasma protein binding affects effect of a drug.

