

Roll No

MPY-201 (PCL)
M.Pharmacy II Semester
Examination, May 2019
Advanced Pharmacology - I
Time : Three Hours

Maximum Marks: 70

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) What is bioavailability? Describe its significance and discuss plasma concentration vs time profile. 7
b) Define bioequivalence and its significance. 7
2. Describe TDM and what are various criteria for valid TDM. Write about necessity of TDM. 14
3. Discuss the following : (Any two) 2 × 7 = 14
 - a) Apparent volume of distribution
 - b) Area under curve
 - c) Biological half life
4. Write therapeutic drug monitoring of following:
 - a) Valproic acid 3½
 - b) Theophylline 3½
 - c) Aminoglycosides 3½
 - d) Digoxin 3½

5. What is one compartment and multi-compartment models. Write their limitation and their significance. 14

6. Write a note on following : (Any two) 2 × 7 = 14

- a) Basics of drug interaction
- b) Drug distribution
- c) Clearance of drug

7. Describe in detail about factor affecting drug absorption and various route of drug absorption. 14

8. Discuss the effect of pharmacokinetics of the drug in selection of dosage regimen and write dosing of drugs in elderly. 14
