

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
M. Ph. – SEMESTER - II – • EXAMINATION – SUMMER -2018**Subject Code: MCP201T****Date: 14/05/2018****Subject Name: CLINICAL PHARMACY PRACTICE-II****Time: 10:30 AM TO 01:30 PM****Total Marks: 80****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a) What are the advantages and disadvantages of compartment modeling? 06
(b) Explain various biological factors that enhance the absorption of drug. 05
(c) Define equivalence, chemical equivalence, Pharmaceutical equivalence and bio equivalence 05
- Q.2 (a) How do the following parameters affect the pharmacokinetic of a drug? 06
i) obesity ii) protein binding
iii) renal function iv) disease state
(b) Describe the drug interactions occur due to absorption and metabolism with example. 05
(c) Write a note on cytochrome p450 iso-enzymes. 05
- Q.3 (a) Describe the general parameters for dosing in pediatric patient. 06
(b) Describe the importance of Bayesian pharmacometric approach in dose regimen. 05
(c) What is Loading dose? Explain the method to calculate the loading and maintenance dose. 05
- Q.4 (a) Define Pharmacoeconomics and describe its evolution till now. 06
(b) Describe the effects of genetic polymorphism on drug metabolism. 05
(c) Enlist the non-renal routes of drug excretion. Explain biliary drug excretion. 05
- Q.5 (a) Describe the current scenario of clinical pharmacy in India. 06
(b) What is volume of distribution? Describe various factors affecting it. 05
(c) Write a note on drug utilization review. 05
- Q.6 (a) Explain the effects of Genetic Polymorphism in Drug Transport. 06
(b) Write a note on cohort and cross sectional studies. 05
(c) What are the indications for using TDM in patient suffering from cardiovascular ailments? 05
- Q.7 (a) Explain various methods to enhance the bioavailability of the drug. 06
(b) Discuss the factors affecting protein binding and its Clinical significance. 05
(c) Explain medication adherence. Describe the various methods to measure it. 05
