

Seat No: _____

Enrollment No: _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM.-SEMESTER-VIII- EXAMINATION –SUMMER-2017

Subject Code: 2280008

Date: 09/05/2017

Subject Name: Bioavailability & Therapeutic Drug Monitoring

Time: 10:30 AM to 01:30 PM

Total Marks: 80

Instruction:

- 1. Attempt Any five Questions
- 2. Make Suitable Assumption wherever necessary
- 3. Figures to the right indicate full Marks

- Q.1** (a) Define TDM. Write down Objective & Clinical Application of TDM [6]
(b) Write short note on Physico& Chemical Parameter of Drug & body Fluid [5]
(c) Describe the objectives of Bioavailability [5]
- Q.2** (a) What are different types OF Study Design? Give detail of Parallel & crossover [6]
Study Design
(b) Write Target Drug range for TDM [5]
(c) Write down Criteria for Selection of Methods For TDM [5]
- Q.3** (a) Enumerate the physical & immunoassay in TDM. Write in detail about ELISA [6]
(b) Write a note on Determination of AUC [5]
(c) Define terms: 1) Pharmaceutical Equivalent 2) Bioequivalence [5]
- Q.4** (a) Write in Detail about Radioimmunoassay [6]
(b) Explain Relative & Absolute Bioavailability [5]
(c) Write down TDM for Phenytoin [5]
- Q.5** (a) Enumerate Different Techniques for Enhancement of Bioavaibility. Discuss any [6]
one in detail
(b) Write down TDM for Digoxin [5]
(c) Explain Different Methods To assess Bioavailability [5]
- Q.6** (a) Explain factors affecting Bioavailability [6]
(b) Write short note on Invitro-Invivo Correlation [5]
(c) Enumerate the different theory of Dissolution. Discuss in detail about Film [5]
Theory
- Q.7** (a) Explain in detail about Protocol preparation for Pharmacokinetic Equivalence [6]
Study.
(b) What is First pass Clearance? How it Will affect Bioavaibility [5]
(c) Discuss about Pharmacodynamic Models [5]
