

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM - SEMESTER- 4 EXAMINATION – SUMMER -2019**

**Subject Code: 2240005****Date: 06-05-2019****Subject Name: Basic Concepts of Pharmacology and Clinical Pharmacy Practice****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) Define Phase I & Phase II reactions. Explain Phase II reactions. **06**  
(b) Write a note on volume of distribution. **05**  
(c) Define terms: poison, tachyphylaxis, biological half life, pharmacokinetics, and synergism. **05**
- Q.2** (a) Explain in brief, mechanisms of drug transport across the cell membrane. **06**  
(b) Enlist various routes of administration. Discuss advantages and disadvantages of oral route. **05**  
(c) Write a note on therapeutic drug monitoring. **05**
- Q.3** (a) Discuss factors affecting modification of drug effects in elderly population. **06**  
(b) Give targets for drug action and explain principles of drug action. **05**  
(c) Explain bioavailability and bioequivalence. **05**
- Q.4** (a) Discuss functions and targets for drug action for G- protein coupled receptors. **06**  
(b) Write a note on nuclear receptors giving examples of drugs. **05**  
(c) Explain dose response relationship. **05**
- Q.5** (a) Classify drug interactions according to M/A and explain drug – food interactions. **06**  
(b) Discuss different aspects to be considered for effective patient counseling. **05**  
(c) Write a note on Medication errors. **05**
- Q.6** (a) Classify adverse drug reactions and write on type B ADRs. **06**  
(b) What is EML. Discuss advantages and disadvantages of essential medicines. **05**  
(c) Discuss the role of drug and therapeutic committee. **05**
- Q.7** (a) Detail on rational use of medicine. **06**  
(b) Explain drug antagonism. **05**  
(c) Write a note on penetration of drugs in brain. **05**

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