

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.

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|-------------|---|-----------|
| 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 |
