

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm - SEMESTER-IV • EXAMINATION – SUMMER-2017

Subject Code: 2240005

Date: 06/05/2017

Subject Name: Basic Concepts of Pharmacology and Clinical Pharmacy Practice

Time: 02:30 PM to 05:30 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) | Describe various factors affecting distribution of drugs. | 06 |
| | (b) | Write a note on various routes of administration of drug. | 05 |
| | (c) | Define following terms: 1. Poison 2. Tachyphylaxis 3. Pharmacokinetics
4. Chemotherapy 5. Pharmacoepidemiology | 05 |
| Q.2 | (a) | Define biotransformation. Explain various factors affecting biotransformation of drugs. | 06 |
| | (b) | Write a short note on therapeutic drug monitoring. | 05 |
| | (c) | Define bioavailability. Explain single dose and multiple dose bioavailability. | 05 |
| Q.3 | (a) | Write a note on carrier mediated drug transport across biological membrane. | 06 |
| | (b) | Write a note on medication non-adherence. | 05 |
| | (c) | Write a note on dose response relationship. | 05 |
| Q.4 | (a) | Classify receptors. Write a short note on G-protein coupled receptors. | 06 |
| | (b) | Define antagonism. Explain competitive and noncompetitive antagonism. | 05 |
| | (c) | Explain pharmacokinetic considerations in dose adjustment required in pediatric patients. | 05 |
| Q.5 | (a) | Discuss about various pharmacokinetic drug interactions with example. | 06 |
| | (b) | Discuss following terms: 1. Drug withdrawal reactions 2. Iatrogenic effects. | 05 |
| | (c) | Write a note on scope of clinical pharmacy. | 05 |
| Q. 6 | (a) | Define pharmacovigilance. Describe various contributing factors for adverse drug reaction monitoring. | 06 |
| | (b) | Write a short note on medication errors. | 05 |
| | (c) | Write a note on patient counselling. | 05 |
| Q.7 | (a) | Explain the factors affecting the absorption of drugs. | 06 |
| | (b) | Discuss the importance of drug and poison information center. | 05 |
| | (c) | Write a principle involved in concept of essential medicines and rational drugs use. | 05 |
