

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. – SEMESTER – IV • EXAMINATION – SUMMER • 2015

Subject Code: 2240005

Date: 05-06-2015

Subject Name: Basic Concepts of Pharmacology and Clinical Pharmacy Practice

Time: 10:30 am - 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) Write a note on various routes of administration of drug. | 06 |
| | (b) Explain the dose response relationship. | 05 |
| | (c) Write a note on various sources of drugs. | 05 |
| Q.2 | (a) Classify bio-transformation reactions of the drugs. Add a note on non-synthetic reactions. | 06 |
| | (b) Write a note on factors modifying drug action. | 05 |
| | (c) Write a note on combined effect of drugs. | 05 |
| Q.3 | (a) Write a note on G-protein coupled receptors with major effector pathways. | 06 |
| | (b) Explain various transport mechanisms of drug across the biological membrane. | 05 |
| | (c) Explain the following terminology in brief | 05 |
| | i) Pharmacokinetics | |
| | ii) Pharmacoepidemiology | |
| | iii) Carcinogenicity | |
| iv) Drug dependence | | |
| v) Iatrogenic effects | | |
| Q.4 | (a) Define and classify drug-drug interactions. | 06 |
| | (b) Write a note on competitive and non-competitive antagonism. | 05 |
| | (c) Write a note on rational use of medicines. | 05 |
| Q.5 | (a) Define absorption of drug. Explain the factors affecting absorption. | 06 |
| | (b) Explain the bioavailability of the drug and bioequivalence drugs. | 05 |
| | (c) Write a note on therapeutic drug monitoring and its significance. | 05 |
| Q. 6 | (a) Define Patient counseling. Explain goals and functions of patient counseling. | 06 |
| | (b) Explain the word medication adherence. Write a note on importance of medication adherence. | 05 |
| | (c) Write a note on drug information centre. | 05 |
| Q.7 | (a) Write a note on key elements for communication skills for effective counseling. | 06 |
| | (b) Enumerate and explain various steps for patient counseling. | 05 |
| | (c) Write a note on medication errors. | 05 |
