

GUJARAT TECHNOLOGICAL UNIVERSITY**D.Ph. - SEMESTER-II • EXAMINATION – SUMMER 2013****Subject Code: 420003****Date: 16-05-2013****Subject Name: Pharmacology & toxicology****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.

- | | | | |
|-------------|------------|---|-----------|
| Q.1 | (a) | Enlist route of drug administration. Write advantage and disadvantage of parenteral route. | 06 |
| | (b) | Classify sympatholytics. Write pharmacology of propranolol. | 05 |
| | (c) | Give names of local anesthetics. Describe mechanism of action of procaine | 05 |
| Q.2 | (a) | Classify antiarrhythmic agents. Discuss pharmacological actions of quinidine. | 06 |
| | (b) | What is drug metabolism? Describe phase I metabolism. | 05 |
| | (c) | Write a note on contraceptive pills. | 05 |
| Q.3 | (a) | Write mechanism of action and pharmacological actions of digitalis. | 06 |
| | (b) | Classify antiparkinsonism drugs. Describe mechanism of levodopa and carbidopa. | 05 |
| | (c) | Enlist factor affecting drug absorption. Write in details on any two factors. | 05 |
| Q.4 | (a) | Classify antihypertensive agents. Write pharmacology of captopril. | 06 |
| | (b) | Explain mechanism and side effects of phenytoin. | 05 |
| | (c) | Write therapeutic uses and adverse effects of aspirin. | 05 |
| Q.5 | (a) | Classify chemotherapeutic agents based on antibacterial spectrum, mechanism of action. | 06 |
| | (b) | Describe mechanism of action and side effects of tetracycline. | 05 |
| | (c) | Write pharmacology of loop diuretics. | 05 |
| Q. 6 | (a) | Enlist antiasthmatic agents. Write pharmacology of bronchodilators. | 06 |
| | (b) | Discuss mechanism of action and side effects of cotrimoxazole. | 05 |
| | (c) | Write a note on haematinics. | 05 |
| Q.7 | (a) | Classify anticancer agents. Explain mechanism of alkylating agents | 06 |
| | (b) | Describe synthesis and pharmacological actions of histamine. | 05 |
| | (c) | Discuss mechanism, therapeutic uses and side effects of proton pump inhibitors. | 05 |
