

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

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

## GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Pharmacy Second Year Examination May 2010

Subject code: 420003

Subject Name: Pharmacology & Toxicology

Date: 21 /05 /2010

Time: 03.00 pm – 06.00pm

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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|-------------|-----|-----------------------------------------------------------------------------------------------------------------------|-----------|
| <b>Q.1</b>  | (a) | Classify oral hypoglycemic agents. Write a note on insulin preparations                                               | <b>08</b> |
|             | (b) | Write a note on Cox-II inhibitors                                                                                     | <b>04</b> |
|             | (c) | Write therapeutic uses of corticosteroids                                                                             | <b>04</b> |
| <b>Q.2</b>  | (a) | Classify anti-hypertensive drugs. Describe pharmacological actions and adverse effects of ACE inhibitors.             | <b>08</b> |
|             | (b) | Write mechanism of action and adverse effects of Digoxin                                                              | <b>05</b> |
|             | (c) | Describe in detail pharmacology of barbiturates                                                                       | <b>03</b> |
| <b>Q.3</b>  | (a) | Classify antineoplastic drugs. Describe mechanism of action, adverse effects and therapeutic uses of Methotrexate     | <b>08</b> |
|             | (b) | Justify the use of the followings                                                                                     | <b>08</b> |
|             |     | i) Montelukast in Asthma      ii) Fluoxetine in depression                                                            |           |
|             |     | iii) Physostigmine in Atropine poisoning                                                                              |           |
|             |     | iv) Ethanol in Methanol poisoning                                                                                     |           |
| <b>Q.4</b>  | (a) | Classify sympathomimetics. Write pharmacological actions, adverse effects and therapeutic uses of Adrenaline.         | <b>08</b> |
|             | (b) | Classify anti-psychotic drugs and write a note on Chlorpromazine                                                      | <b>08</b> |
| <b>Q.5</b>  | (a) | Enumerate various antitubercular drugs. Write mechanism of action, therapeutic uses and adverse effects of Rifampicin | <b>08</b> |
|             | (b) | Write adverse effects of Chloramphenicol                                                                              | <b>03</b> |
|             | (c) | Write therapeutic uses of beta blockers                                                                               | <b>05</b> |
| <b>Q. 6</b> | (a) | Classify penicillins. Write mechanism of action and therapeutic uses of Ampicillin.                                   | <b>08</b> |
|             | (b) | Write merits and demerits of intra venous route of administration                                                     | <b>04</b> |
|             | (c) | Write a note on volume of distribution                                                                                | <b>04</b> |
| <b>Q.7</b>  | (a) | Describe factors affecting absorption of drug                                                                         | <b>06</b> |
|             | (b) | Write a note on anti-HIV agents                                                                                       | <b>06</b> |
|             | (c) | Give clinical classification of anti-malarial drugs                                                                   | <b>04</b> |

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