

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.

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