

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA PHARMACY- SEMESTER – II • EXAMINATION – SUMMER 16

Subject Code: 420003**Date: 02.05.2016****Subject Name: Pharmacology and Toxicology****Time: 10:30 AM TO 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) Define and explain the following terms (any **six**) **06**
a) Pharmacology e) Bioavailability
b) Antagonism f) Antibiotics
c) Drug resistance g) Tachyphylaxis
d) Hypersensitivity h) Bioequivalence
- (b) Discuss merits and demerits of oral and parenteral route of drug administration. **05**
- (c) Classify sympathomimetic agent based on their clinical use .Describe **05**
pharmacological actions, therapeutic uses and adverse effects of Adrenaline.
- Q.2** (a) Write short notes on following : (any **three**) **06**
a) Blood brain barrier c) Re-entry movement
b)Types of epilepsy d) serotonin(5HT)
- (b) Classify Antihypertensive agents. Write in brief about ACE inhibitors. **05**
- (c) Write mechanism of action , pharmacological action ,uses and adverse effect of **05**
Digitalis.
- Q.3** (a) Write therapeutic uses and adverse effects of following drugs (Any **three**) **06**
a) Atropine d) Physostigmine
b) Phenytoin e) chlorpromazine
c) Verapamil f) L-dopa
- (b) Classify antidepressant drug. Write mechanism of action ,common adverse **05**
effects and uses of Tricyclic antidepressants.
- (c) Describe the stages of general anesthesia .Write in brief about drugs used as **05**
preanesthetic medication.
- Q.4** (a) Write short notes on the following : (any **Three**) **06**
a)Acyclovir d) Tetracycline antibiotics
b)Fluroquinolone antibiotics e) Metronidazole
c) Sulphonamides f) Vincristine
- (b) Differentiate Benzodiazepines and Barbiturates with respect of their **05**
mechanism of action, pharmacological actions, therapeutic uses and adverse
effects.
- (c) Write pharmacology of Insulin and enumerate its preparations. Give **05**
classification of oral hypoglycemic agents.

