

GUJARAT TECHNOLOGICAL UNIVERSITY
Pharm D – 2nd Year EXAMINATION – WINTER - 2022

Subject Code: 828804**Date: 30/01/2023****Subject Name: Pharmacology - I****Time: 02:30 PM TO 05:30 PM****Total Marks: 70****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Classify various routes of administration. Write merits and demerits of intravenous route. **06**
(b) Write a note on drug interactions. **04**
(c) Write a note on pre-clinical evaluation. **04**
- Q.2** (a) Classify receptors. Write a short note on G-protein coupled receptors. **06**
(b) Define acute, sub-acute and chronic toxicity. **04**
(c) Write briefly about the phases involved in bio-transformation. **04**
- Q.3** (a) Classify central nervous system stimulants. Write the mechanism of action of psychostimulants. **06**
(b) Write a note on β adrenergic blocking agents. **04**
(c) Classify local anesthetics. Discuss its general characteristics and mechanism of action. **04**
- Q.4** (a) Classify anticholinergic agents. Explain the pharmacological action and uses of atropin. **06**
(b) Discuss the stages of general anaesthesia. **04**
(c) Explain the mechanism of action and therapeutic uses of non-steroidal anti-inflammatory drugs. **04**
- Q.5** (a) Define epilepsy. Classify them. Write the mode of action and side effects of phenytoin. **06**
(b) Enumerate mucolytics. Write pharmacological actions of methyl xanthine. **04**
(c) Write a note on insulin and its preparation. **04**
- Q.6** (a) Classify lipid lowering agents. Write note on HMG CoA reductase inhibitors. **06**
(b) List out the drugs used in treatment of congestive heart failure. Write the mechanism of cardiac glycoside. **04**
(c) Explain about various Hormonal contraceptives. **04**
- Q.7** (a) Classify antihistamines. Write a note on histamine receptors. **06**
(b) Write the synthesis, storage and metabolism of 5-hydroxytryptamine. **04**
(c) Enlist drugs used in parkinsonism and justify the use of L-dopa and Carbidopa combination for treatment. **04**
