

GUJARAT TECHNOLOGICAL UNIVERSITY
Pharm D –Year-2 EXAMINATION – WINTER - 2021

Subject Code: 828804**Date: 19/02/2022****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.

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| Q.1 | (a) | Classify various routes of administration. Write merits and demerits of intravenous route. | 06 |
| | (b) | Describe various factors affecting distribution of drugs. | 04 |
| | (c) | Write a note on carrier mediated drug transport across biological membrane. | 04 |
| Q.2 | (a) | Classify receptors. Write a short note on G-protein coupled receptors. | 06 |
| | (b) | Discuss pharmacokinetic drug interactions with suitable examples. | 04 |
| | (c) | Differentiate competitive and non-competitive antagonism. | 04 |
| Q.3 | (a) | Classify cholinergic agents. Write the therapeutic uses of cholinergic blocking agents. | 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 sympathomimetic agents. Explain their pharmacological actions. | 06 |
| | (b) | Write a note on methyl alcohol poisoning and its treatment. | 04 |
| | (c) | Classify NSAIDS. Explain mechanism of action, therapeutic uses and adverse effects of Aspirin. | 04 |
| Q.5 | (a) | Define hypertension. Write a note on treatment of hypertension. | 06 |
| | (b) | Enumerate mucolytics. Write pharmacological actions of methyl xanthine. | 04 |
| | (c) | Discuss therapeutic management of Grandmal epilepsy. | 04 |
| Q. 6 | (a) | Classify lipid lowering agents. Write note on HMG CoA reductase inhibitors. | 06 |
| | (b) | Write a note on anti-arrhythmic drugs in brief. | 04 |
| | (c) | Explain about various Hormonal contraceptives. | 04 |
| Q.7 | (a) | Write pharmacological actions of histamine. | 06 |
| | (b) | Discuss 5-HT antagonists. | 04 |
| | (c) | Enlist drugs used in parkinsonism and justify the use of L-dopa and Carbidopa combination for treatment. | 04 |
