

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM – SEMESTER –4 EXAMINATION – SUMMER-2024**

**Subject Code: BP404TP****Date: 14/06/2024****Subject Name: Pharmacology I****Time: 10.30 a.m. to 1.30 p.m.****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) | Define following with example. 1) tachyphylaxis 2) drug tolerance 3) enzyme induction                                  | <b>06</b> |
|             | (b) | Differentiate between sympathetic and parasympathetic nervous system.  | <b>05</b> |
|             | (c) | Write a note on Anti-epileptic drugs.  | <b>05</b> |
| <b>Q.2</b>  | (a) | Enumerates different types of receptors. Explain in detail about G protein coupled receptor.                           | <b>06</b> |
|             | (b) | Write a note on neuromuscular blocking agents.   | <b>05</b> |
|             | (c) | Discuss rationale for the use of ethyl alcohol in methyl alcohol poisoning.  | <b>05</b> |
| <b>Q.3</b>  | (a) | Classify various types of drug interactions. Discuss pharmacodynamics drug interactions.                               | <b>06</b> |
|             | (b) | Write stages of general anesthesia and discuss pharmacokinetic of Inhalation anesthetics.                              | <b>05</b> |
|             | (c) | Write pharmacological action of Morphine.  | <b>05</b> |
| <b>Q.4</b>  | (a) | Write classification of parasympathomimetics. Write therapeutics uses of it.   | <b>06</b> |
|             | (b) | Make a note on followings: 1) Glaucoma 2) Dose response relationship   | <b>05</b> |
|             | (c) | Write a note on drug discovery to development process.   | <b>05</b> |
| <b>Q.5</b>  | (a) | Classify Antiparkinsons drugs. Write mechanism of action, therapeutic uses and side effects of carbidopa and Levodopa. | <b>06</b> |
|             | (b) | Enlist various route of drug administration. Discuss advantages and disadvantages of oral route.                       | <b>05</b> |
|             | (c) | Define ADR and explain its type with suitable examples.  | <b>05</b> |
| <b>Q. 6</b> | (a) | Classify local anesthetics and write detailed pharmacology of Lidocaine.   | <b>06</b> |
|             | (b) | Enlist factors affecting drug absorption. Discuss about passive diffusion in detail.                                   | <b>05</b> |
|             | (c) | Write pharmacovigilance in detail.   | <b>05</b> |
| <b>Q.7</b>  | (a) | Classify neurotransmitters and give in details about GABA and Serotonin.   | <b>06</b> |
|             | (b) | Describe various phases of clinical trial and its importance.  | <b>05</b> |
|             | (c) | Write a note on drug used in myasthenia gravis.  | <b>05</b> |

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