

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**Pharm D – 2<sup>nd</sup> Year • EXAMINATION – WINTER - 2023**

**Subject Code:828804****Date: 18/01/2024****Subject Name: Pharmacology-I****Time: 2:30 PM to 5:30 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 Receptors and write in brief on G-Protein Coupled Receptor with signal transduction mechanism. **06**
- (b) Write in detail on Factors affecting Absorption. **04**
- (c) Define Drug Interaction, Write short note on Pharmacokinetic Drug-Drug Interaction. **04**
- Q.2** (a) Classify Parasympathomimetic agent, Write in detail pharmacological action of Acetylcholine. **06**
- (b) Write in detail pharmacological action of HMG-Co-A reductase Inhibitor. **04**
- (c) Classify Anti-Parkinson agent, explain mechanism of action in detail. **04**
- Q.3** (a) Classify Anti-Hypertensive Agent, write in detail Mechanism of Action and therapeutic uses of Angiotensin converting Enzyme Inhibitor (ACEI) **06**
- (b) Write in detail pharmacological action of Aspirin. **04**
- (c) Write short note on Anti-tussive agent. **04**
- Q.4** (a) Write in detail pharmacological action of alcohol, treatment of alcohol poisoning. **06**
- (b) Classify Anti-arrhythmic agent, write in detail mechanism of action of Quinidine. **04**
- (c) Write in detail pathophysiological role of 5-Hydroxytryptamine. **04**
- Q.5** (a) Classify Oral Hypoglycemic agents, write in detail mechanism of action of Sulfonylureas. **06**
- (b) Write short note on Oral Contraceptives. **04**
- (c) Classify Bronchodilators, Write in detail mechanism of action of Salbutamol. **04**
- Q.6** (a) Enlist routes of drug administration, write in detail note on merits and demerits of parenteral route. **06**
- (b) Write short note on CNS stimulant. **04**
- (c) Classify Anti-epileptic agents, write in detail pharmacological action of Phenytoin. **04**
- Q.7** (a) Write in detail Mechanism of Action of following: **06**  
A) Propranolol B) Nitrate C) Probenecid
- (b) Write in detail short note on Neuromuscular blocker. **04**
- (c) Write in detail short note stages of general anesthesia. **04**