

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM- SEMESTER VI • EXAMINATION – SUMMER -2025

Subject Code:2260005**Date:09/05/2025****Subject Name: Pharmacology & Pharmacotherapeutics-II****Time: 10:30AM TO 01:30PM****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) Classify NSAIDS and explain the mechanism of action and therapeutic uses of aspirin. **06**
- (b) Write clinical manifestations and pharmacotherapeutic management of epilepsy. **05**
- (c) Explain the pathophysiology and treatment of Parkinson's disease. **05**
- Q.2** (a) Classify DMARDs. Discuss the management of rheumatoid arthritis. **06**
- (b) Classify CNS stimulant drugs and explain the pharmacology of any one drug. **05**
- (c) Explain in detail the stages of general anesthesia. **05**
- Q.3** (a) Explain the following terms: **i)** Drug abuse **ii)** Tolerance **iii)** Psychological dependence. **06**
- (b) Write synthesis and pharmacology of prostaglandins. **05**
- (c) Write a note on immunosuppressant drugs. **05**
- Q.4** (a) Classify anti-anxiety drugs. Explain the mechanism of action and therapeutic uses of diazepam. **06**
- (b) Explain the following terms: **i)** disulfiram-alcohol reaction **ii)** Preanesthetic medication. **05**
- (c) Discuss therapeutic management of absence seizure. **05**
- Q.5** (a) Describe the clinical presentation, diagnosis, and treatment of Depression. **06**
- (b) Write the mechanism of action and therapeutic uses of the following drugs: **05**
i) celecoxib **ii)** methotrexate
- (c) Explain the therapeutic management of methanol poisoning. **05**
- Q. 6** (a) Write the physiological and pathophysiological functions of serotonin in CNS. **06**
- (b) Justify the use of carbidopa with levodopa in patients suffering from Parkinson's. **05**
- (c) Explain the mechanism of action and therapeutic uses of allopurinol. **05**
- Q.7** (a) Classify CNS stimulant drugs. Explain the pharmacology of Donepezil. **06**
- (b) Explain the mechanism of action and therapeutic uses of dissociative anesthetic agent. **05**
- (c) Classify opioid antagonists. Discuss opioid antagonists with reference to opioid receptors. **05**
