

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B. PHARM-SEMESTER-VI EXAMINATION-WINTER-2020**

**Subject Code:2260005****Date: 13/01/2021****Subject Name: Pharmacology and Pharmacotherapeutics II****Time: 2:00 PM TO 4:00 PM****Total Marks: 54****Instructions:**

1. Attempt any **THREE** questions from Q-1 to Q-6.
2. **Q.7** is compulsory to attempt.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks.

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|-------------|--|-----------|
| <b>Q.1</b>  | (a) Explain GABA as CNS neurotransmitter.  | <b>06</b> |
|             | (b) Classify NSAIDs with examples. Explain the pharmacological actions and therapeutic uses of Aspirin.  | <b>05</b> |
|             | (c) Write a short note on: Stages of anaesthesia.  | <b>05</b> |
| <b>Q.2</b>  | (a) Enumerate Affective disorders. Explain in brief signs and symptoms and diagnostic tests for depression.  | <b>06</b> |
|             | (b) Classify immunosuppressants. Write the mechanism of action, adverse effects and therapeutic uses of Ciclosporin.   | <b>05</b> |
|             | (c) Write a short note on: Pre- anaesthetic medications.   | <b>05</b> |
| <b>Q.3</b>  | (a) Discuss etiology, clinical signs and symptoms and pathophysiology of Parkinsonism. Explain why levodopa is given in combination with carbidopa in treatment of Parkinsonism. | <b>06</b> |
|             | (b) Discuss the positive and negative symptoms of Psychoses or Schizophrenia.  | <b>05</b> |
|             | (c) Write a short note on: Drug dependance and abuse.  | <b>05</b> |
| <b>Q.4</b>  | (a) Classify antiepileptic drugs acting through GABA giving brief mechanism of each class. What is status epilepticus  | <b>06</b> |
|             | (b) Explain synthesis and metabolism of Uric acid. Discuss the mechanism of action of Colchicine and Probenacid in treatment of Gout.  | <b>05</b> |
|             | (c) Write a short note on: Selective COX-II inhibitors.  | <b>05</b> |
| <b>Q.5</b>  | (a) Explain the pathophysiology, clinical features and tests for diagnosis of Alzheimer's disease.   | <b>06</b> |
|             | (b) What are Disease Modifying AntiRheumatic Drugs (DMARDs)? Give examples. Explain their role in treatment of Rheumatoid Arthritis.   | <b>05</b> |
|             | (c) Write a short note on: Morphine poisoning and its treatment.   | <b>05</b> |
| <b>Q. 6</b> | (a) Define Anxiety. Give its etiology and signs and symptoms. Explain the role of Benzodiazepines in treatment of anxiety.   | <b>06</b> |
|             | (b) Define Insomnia. Give its etiology and differentiate between REM and NREM sleep.   | <b>05</b> |
|             | (c) Write a short note on: Dopamine as CNS neurotransmitter.   | <b>05</b> |
| <b>Q.7</b>  | (a) Discuss etiology, signs and symptoms and diagnosis of Rheumatoid Arthritis.  | <b>06</b> |
|             | <b>OR</b>  |           |
|             | (a) Classify CNS stimulant drugs. Explain mechanism of action and therapeutic uses of Amphetamine.   | <b>06</b> |
|             | <b>OR</b>  |           |
|             | (a) Justify the use of:  | <b>06</b> |
|             | (i) Donepezil in treatment of Alzheimer's disease.   |           |
|             | (ii) Ethyl alcohol in treatment of methyl alcohol poisoning  |           |