

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