

PARUL UNIVERSITY
FACULTY OF PHARMACY
M. Pharm. Winter 2022 - 23 Examination

Semester: 1**Subject Code: MPL102T****Subject Name: Advanced Pharmacology-I****Date: 15/03/2023****Time: 10:00 am to 01:00 pm****Total Marks: 75****Instructions:**

1. Figures to the right indicate maximum marks.
2. Make suitable assumptions wherever necessary.

Q.1 Essay Type Questions. (any 2 out of 3) (15 Marks Each) (30)

1. Enlist drug targets. Explain G-Protein coupled receptor in detail along with IP3/DAG and c-AMP pathways
2. Define heart failure, write down management based on stages of heart failure and explain mechanism of action of cardiac glycosides and loop diuretics
3. Write down synthesis, storage, release, metabolism and reuptake of catecholamines. Write down adverse drug reactions of NSAIDs.

Q.2 Short Essay Type Questions. (any 5 out of 6) (5 Marks Each) (25)

1. Classify anti-arrhythmic agents according to Vaughan Williams and Singh and explain role of calcium channel blockers.
2. Write down pharmacotherapy of epilepsy.
3. Write a note on HMG Co-reductase inhibitors.
4. Enlist histamine receptors with their locations and write down pharmacological actions of antihistaminic agents
5. Write down etiology and pathophysiology Alzheimer's disease and role of galantamine in treatment of it
6. Explain stages of general anaesthesia

Q.3 Short Answers. (2 Marks Each) (20)

1. Explain Vasomotor reversal of Dale
2. Define synergism and addition in means of drug effect
3. Write down advantages of benzodiazepines over barbiturates.
4. Write down pharmacological actions of 5-HT on CNS
5. Why does sacubitril is combined with valsartan?
6. Write down mechanism of action of selective serotonin reuptake inhibitors.
7. Write in short about opioid receptors.
8. Enlist fibrinolytic agents and explain their uses.
9. Write down pharmacological actions of acetylcholine on heart, secretory glands and urinary bladder.
10. Write in short about phase-1 biotransformation of drug.