

SCHOOL OF CHEMICAL AND LIFE SCIENCES
M.Sc. in CLINICAL RESEARCH
SEMESTER-II, EXAMINATION May-2024

2023

PAPERCODE: MCR DCC 201

PAPERTITLE: Advanced Pharmacology -I

Time: 2.5 Hrs.

Maximum Marks: 60

Write the roll number at the top immediately on receipt of this question paper. Attempt all questions. All parts of a question must be attempted in continuation. Start answer of a fresh question on a new page. Cite examples whenever necessary

Q 1. Define/answer the following

[2x10=10]

a.	Define synaptic plasticity.
b.	Why levodopa combined with carbidopa?
c.	Enlist the extrapyramidal side-effects of antipsychotic drugs
d.	What is the mechanism of action of phenytoin?
e.	Discuss about Low Molecular Weight Heparins.
f.	Give classification of fibrinolytic drugs.
g.	Write down the receptors of acetylcholine.
h.	Diagrammatically represent neurohumoral transmission.
i.	What is mania? Classify the drugs used for mania.
j.	What are beta receptor blockers?

Q2. Attempt ANY FOUR questions from the following

[4x5=20]

a.	Write a note on glutamate and its drugs acting on its receptors
b.	Classify benzodiazepines. Discuss their mechanism of action
c.	What are antiplatelet drugs? Write about clopidogrel.
d.	Write a note on parasympatholytics and their clinical uses.
e.	Discuss the pharmacotherapy of Parkinson's disease
f.	What is Congestive Heart Failure? Write about the drugs used to treat the same

Q 3. Attempt ANY TWO questions from the following

[2x10=20]

a.	Classify NSAIDs. Write down the pharmacology of celecoxib.
b.	What is angina? Classify the drugs used to treat angina. Write about the pharmacology of nitroglycerine.
c.	Briefly write about Alzheimer's disease. Enlist the drugs used for the treatment of Alzheimer's disease along with their MoA.