Name:

Enrolment No:



UPES

End Semester Examination, December 2023

Course: B.Sc. Clinical Research

Semester: III

Program: Pharmacology -I

Course Code: HSCR2001

Duration: 3 Hours

Max. Marks: 100

Instructions: Attempt all Questions. Use flowcharts and diagrams where required.

S. No.	Section A	Marks	COs
	Short answer questions/ MCQ/T&F (20Qx1.5M= 30 Marks)		
Q 2	What is the essential drug concept?	1.5	CO1
Q 3	What do you mean by route of drug administration?	1.5	CO1
Q 4	Define the term myasthenia gravis?	1.5	CO1
Q 5	Define- a. Agonist b. Antagonist	1.5	CO1
Q 6	The nicotinic antibodies bind to the receptors in myasthenia gravis.	1.5	CO2
Q 7	Differentiate the terms general and local anesthetics.	1.5	CO2
Q 8	Classify the antiparkinson drugs.	1.5	CO2
Q 9	Write down the importance of GABA neurotransmitter.	1.5	CO2
Q 10	Write the name of two local anesthetics.	1.5	CO2
Q 11	How local anesthetics work inside the body.	1.5	CO3
Q 12	Categories the antiparkinson drugs.	1.5	CO3
Q 13	Write the mechanism of action of barbiturates.	1.5	CO3
Q 14	Write the mechanism of action of Pre-anesthetic medications.	1.5	CO3
Q 15	Differentiate competitive and noncompetitive antagonist.	1.5	CO3
Q 16	Identify the Benzodiazepines drugs. a. Diazepam b. Phenobarbitone c. Aspirin d. Paracetamol	1.5	CO4
Q 17	Tachyphylaxis is defined as	1.5	CO4
Q 18	What is the role of Dopamine as a neurotransmitter.	1.5	CO4

Q 19	Differentiate sedatives and hypnotics.	1.5	CO4
Q 20	Which route has 100% bioavailability and why?	1.5	CO4
	Section B		
	(4Qx5M=20 Marks)		
Q 1	Discuss the historical landmark and scope of pharmacology.	2.5+2.5	CO1
	What is the parasympathetic nervous system? Discuss the	2+3	CO2
Q 2	pharmacology of acetylcholine.		
Q 3	Define signal transduction, discuss in detail about G-protein	2+3	CO3
	coupled receptor.		
Q 4	Define Pharmacodynamics.Categorise different factors	2+3	CO4
	modifying drug action in detail.		
	Section C		
	(2Qx15M=30 Marks)		
Q1	Answer the following questions.		
	1. Identify the disease is when a patient shows these	5+5+5	CO3
	symptoms- i. Masked Face ii. Hand Tremor iii. Tremors in leg iv. Back rigidity and reduced arm		
	swing		
	2. Classify the drugs used in the treatment.		
	3. Write the mechanism of action of any 2 drugs		
Q 2	Define metabolism. How metabolizing enzymes affect the	2+5+8	CO3
	drugs inside the body? Discuss different mechanism of		
	absorption for drugs.		
	Section D		
	(2Qx10M=20 Marks)		
Q1	Differentiate general and local anesthetics, write the name of	10	CO4
	2 drugs, how local anesthetics work inside the body.		
Q 2	What is depression, classify the antidepressants, and write the	2+4+4	CO4
	mechanism of valproic acid.		