


Name:			
Enrolment No:			
UPES End Semester Examination, May 2024			
Course: Pharmaceutical Chemistry Program: B.Sc.(H)Chemistry Course Code: CHEM2020K		Semester: IV Time : 03 hrs. Max. Marks: 100	
Instructions: Read all the instructions below carefully and follow them strictly.			
1) Mention Roll No. at the top of the question paper. 2) ATTEMPT ALL THE PARTS OF A QUESTION AT ONE PLACE ONLY.			
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	Discuss the necessary criteria for drugs to behave as medicines.	4	CO1
Q 2	Explain the advantages of prodrugs.	4	CO1
Q 3	How are neurotransmitters classified based upon their chemical nature?	4	CO1
Q 4	Brief about the working of antiviral drugs inside the body.	4	CO1
Q 5	Irritation principle of drug action has supportive as well as adverse for the body. Justify.	4	CO1
SECTION B (4Qx10M= 40 Marks)			
Q 6	Elaborate the mechanism of β -lactum containing antibiotic drugs.	10	CO1
Q 7	How do the structures of quinolones and fluroquinolones rationalize their roles as antibacterial drugs.	10	CO1
Q 8	What are anti-inflammatory drugs? Discuss the metabolism of aspirin inside the body.	10	CO2
Q 9	Classify anti-AIDS drugs with suitable examples. OR Explain action of antiviral agents inside the body.	10	CO1
SECTION-C (2Qx20M=40 Marks)			

Q 10	Discuss the mode of action of antibiotic targets. OR Examine the mechanism of action of hypertensive agents with their chemical structure.	20	CO2
Q 11	Elaborate the functioning of anticancer drugs with alkylating agents. How does gene therapy help to treat the cancer?	20	CO2