

Name. _____		Printed Pages:01		
Student Admn. No.: _____				
School of Medical & Allide Sciences Semester End Examination (SEE), Summer Term, August 2023 [Programme: B.Pharm] [Semester: 2022-23 – Sem I & II, 2021-23 – Sem IV] (For UG Courses only) [Batch:]				
Course Title: Pharmaceutical Organic Chemistry –I		Max Marks: 100		
Course Code: BPHT2002/BP202T		Time: 3 Hrs.		
Instructions:	1. All questions are compulsory. 2. Assume missing data suitably, if any.			
		K Level	COs	Marks
SECTION-A (15 Marks)		5 Marks each		
1.	Compare SN1 versus SN2 reactions, explain the factors affecting SN1 and SN2 reactions.	K2	3	5
2.	Demonstrate the mechanism of nucleophilic addition reactions.	K2	4	5
3.	Explain the structure and uses of acetic acid, lactic acid.	K2	6	5
SECTION-B (40 Marks)		10 Marks each		
4.	Illustrate structural isomerisms in organic compounds.	K2	1	10
5.	Apply IUPAC systems of nomenclature of organic compounds.	K3	1	10
6.	Identify the stability of conjugated dienes, Diel-Alder, electrophilic addition, free radical addition reactions of conjugated dienes.	K3	2	10
7.	Organize E1 and E2 reactions kinetics, its order of reactivity of alkyl halides. E1 verses E2 reactions, Factors affecting E1 and E2 reactions.	K3	2	10
SECTION-C (45 Marks)		15 Marks each		
8.	Analyze the electrophilic addition reactions of alkenes, Markownikoff's orientation, free radical addition reactions of alkenes, Anti Markownikoff's orientation.	K4	3	15
9.	Explain aldol condensation, Crossed Aldol condensation, Cannizzaro reaction, Crossed Cannizzaro reaction. Give structure and uses of Formaldehyde & acetone.	K5	4	15
10	Justify the Basicity of Aliphatic amines, effect of substituent on Basicity. Give Qualitative test, Structure and uses of Amphetamine.	K5	5	15