SGU	**Sanjay Ghodawat University, Kolhapur** Established as State Private University under Govt. of Maharashtra. Act No XL, 2017	2019-20 EXM/P/09/00

Year and Program: First Year B. Pharmacy 20-21	**School of Pharmaceutical Sciences**	**Department : Pharmacy**
Course Code:BP202T	**Course Title :Pharmaceutical Organic Chemistry-I**	**Semester – II**
Date: 02/03/2021 **Day : Tuesday** **Time:**	**Examination: End Semester**	**Max Marks: 50**

Instructions: 1) All questions are compulsory.

2) Figures on the right include full marks.

3) Draw diagrams wherever necessary.

			Marks	Bloom's Level	CO
Q.1		**Objective Type Questions (Any Seven)**	**14**		
	a)	Define Markownikoff's rule.	02	L1	CO1
	b)	Give the uses of Citric acid.	02	L1	CO4
	c)	Explain diagrammatic representation of sp3 hybridization.	02	L3	CO3
	d)	Draw structure and give IUPAC name of Hexamine.	02	L3	CO2
	e)	Give classification of organic compounds.	02	L4	CO1
	f)	Give the structure of 4-ethyl-4-methyloctane.	02	L3	CO3
	g)	Give the IUPAC name of the following structure, $H_3C - CH = CH - CH_2 - CH_2 - CH_3$	02	L1	CO2
	h)	Discuss step wise nomenclature rule for carboxylic acids with example.	02	L1	CO2
	i)	Explain the uses of paraffin.	02	L1	CO4
	j)	Describe peroxide effect?	02	L2	CO4
Q.2		**Long Answers (Answer 2 out of 3)**	**15**		
	a)	Explain the electrophilic addition reactions of alkenes in brief.	7.5	L2	CO3
	b)	Write a note on: Aldol condensation. Cross aldol condensation.	7.5	L2	CO5
	c)	Give the kinetics, order of reactivity, stereochemistry, and rearrangement of carbocations in SN1 and SN2 reactions.	7.5	L3	CO3
Q3		**Short Answers (Answer 7 out of 9)**	**21**		
	a)	Write a note on structural isomerism.	03	L2	CO2

	b)	Summarize Diel's-Alder reaction.	03	L2	CO3
	c)	Give different methods of preparation of alcohol.	03	L2	CO3
	d)	Give structure, method of preparation and use of Formaldehyde.	03	L3	CO5
	e)	Write a note on basicity of amines.	03	L2	CO5
	f)	Explain the inductive effect and effect of substituents on acidity of carboxylic acids.	03	L2	CO3
	g)	Give the qualitative tests of esters and amides.	03	L2	CO4
	h)	Give structure, method of preparation and use of salicylic acid.	03	L3	CO5
	i)	Write a note on stability of alkenes.	03	L2	CO4