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## School of Basic and Applied Sciences Chemistry ETE - Sep 2023

Time: 3 Hours Marks: 50

## Sem I - MSCH5001 - STEREOCHEMISTRY and REACTION MECHANISMS

Your answer should be specific to the question asked Draw neat labeled diagrams wherever necessary

1.	Relate the concept of chirality by showing proper chemical reaction.	K2 CO1	(2)
2.	Extend the Stereochemistry of biphenyls.	K2 CO2	(2)
3.	Develop any two-preparation method and uses of free radical.	K3 CO3	(2)
4.	Develop the mechanism of aldol condensation.	K3 CO4	(2)
5.	Examine the Sharpless asymmetric epoxidation reaction.	K4 CO5	(2)
6.	Organize and discuss the all types of symmetry elements.	K3 CO1	(5)
7.	Plan and draw the different conformation of cyclohexane and some substituted cyclohexane and draw the conformation of decalins.	K3 CO2	(5)
8.	Discuss recent advances in the stereoselective synthesis with major applications	K6 CO6	(6)
9.	Inspect the role of reaction intermediates and explain the formation, stability and reactions of carbenes and Nitrene.	K4 CO3	(8)
10.	Inspect the mechanism of Lossen and Curtius rearrangement reactions.	K4 CO4	(8)
11.	Explain the reaction mechanism of Barton reaction and its applications	K5 CO5	(8)

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