

## ADMISSION NUMBER

## **School of Basic Sciences**

Bachelor of Science Honours in Chemistry Mid Term Examination - Nov 2023

Duration: 90 Minutes Max Marks: 50

## Sem III - C1UB305B - Halogen and Oxygen Containing Functional Groups

General Instructions
Answer to the specific question asked
Draw neat, labelled diagrams wherever necessary
Approved data hand books are allowed subject to verification by the Invigilator

1)	Summarize the role of solvent in rate of nucleophilic subtitution reaction.	K2 (2)
2)	Why nucleophilic substirtution reaction show inverted product?	K1 (3)
3)	Illustrate the kinetics of reaction of Alkyl halides react with nucleophile.	K2 (4)
4)	Explain the Markonikov's rule with example.	K2 (6)
5)	Utilize the Anti-Markonikov's rule with proper examples.	K3 (6)
6)	Apply the dehydration mechanism of alcohols in E1 and E2.	K3 (9)
7)	Compare between ethyl alcohol and allyl alcohol.	K4 (8)
8)	Predict the product of Carboxylation of phenol.	K4 (12)
	OR	
	Predict the chemical reaction with thionyl chloride, phosphorus pentaoxide and lithium aluminium hydride.	K4 (12)