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**School of Basic Sciences**  
Bachelor of Science Honours in Physics  
Mid Term Examination - May 2024

Duration : 90 Minutes  
Max Marks : 50

**Sem II - C1UB201B - Chemistry of Functional Groups having Halogen and Oxygen**

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) Why is 2-chloro ethanol more acidic than ethanol? K2 (2)
- 2) Discuss Gatterman reaction. K1 (3)
- 3) Identify the oxidation reactions of 1°, 2°, 3° alcohols. K2 (4)
- 4) Explain the mechanism in the conversion of a reaction between formaldehyde, Acetaldehyde and ketone with grignard reagent. K2 (6)
- 5) Determine Pinacol-Pinacolone rearrangement reactions and its mechanism K3 (6)
- 6) Determine the benzyne mechanism towards nucleophilic substitution reactions. K3 (9)
- 7) Discuss the Bouveault Blanc reaction with mechanism. K4 (8)
- 8) Compare the reactions of organolithium and organomagnesium compounds K4 (12)

**OR**

Analyze the product of the various reactions of Organometallic compounds of Mg and Li K4 (12)