

Roll No.



**PRESIDENCY
UNIVERSITY**
BENGALURU

Department of Research & Development
Mid - Term Examinations - SEPTEMBER 2024

Odd Semester: Ph.D. Course Work	Date: 27/09/2024
Course Code: CHE 807	Time: 10:00am – 11:30am
Course Name: Basic Organic Chemistry and Polymer Chemistry	Max Marks: 50
Department: Chemistry	Weightage: 25%

Instructions:

(i) Read all questions carefully and answer accordingly.

(ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 5 marks.		4Qx5M=20M
1	What is free radicals? Explain with some examples.	5 Marks
2	Write the preparation method of Wittig reagent.	5 Marks
3	Mention the criteria for a molecule to be anti-aromatic	5 Marks
4	Write the steps involved in drying of organic solvents toluene, chloroform and Dimethyl sulphoxide.	5 Marks

Part B

Answer ALL Questions. Each question carries 15 marks.		2QX15M=30M
5	What is hybridization? Explain sp, sp ² and sp ³ hybridization with suitable examples.	15 Marks
6	Explain the type of hybridization involving in C ₂ H ₂ and BF ₃ molecule and predict the geometry of those molecule.	15 Marks