

QP Code: D134320		Total Pages:1	Name:
			Register No.
THIRD SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2025			
(CUFYUGP)			
CHE3MN 201-BASIC ORGANIC CHEMISTRY			
2024 Admission onwards			
Maximum Time :2 Hours			Maximum Marks :70
Section A			
All Questions can be answered. Each Question carries 3 marks (Ceiling : 24 Marks)			
1	Distinguish between electrophiles and nucleophiles.		
2	Define inductive effect.		
3	Sketch mesomeric structures of phenol.		
4	What is Dows process?		
5	Write a test for phenol.		
6	Draw the structure of phenolphthalein . Mention one use of it.		
7	How will you distinguish propan-1-ol and propan-2-ol?		
8	What is Sandmeyer's reaction?		
9	Explain carbylamine reaction.		
10	How will you prepare benzoic acid from bromobenzene?		
Section B			
All Questions can be answered. Each Question carries 6 marks (Ceiling : 36 Marks)			
11	Arrange the following in the increasing order of acid strength and account for your answer. Chloroacetic acid, Dichloroacetic acid and Trichloroacetic acid		
12	What is hyper conjugation? Draw the hyper conjugating structures of ethyl carbocation.		
13	Write any three nucleophilic addition reactions of aldehydes.		
14	Write four reactions of alcohols.		
15	Compare of basicity of ammonia, methylamine and aniline.		
16	Write the preparation of methyl orange.		
17	How will you distinguish geometrical isomers?		
18	Draw E and Z isomers of 2-butene and 1,2 -Dichloroethene.		
Section C			
Answer any ONE .Each Question carries 10 marks (1x10=10 Marks)			
19	Write an essay on formation, stability and reactions of carbocations.		
20	Describe conformations of ethane and butane with Newman projections and energy diagram.		