LOYOLA COLLEGE (AUTONOMOUS), CHENNAI - 600 034 B.Sc. DEGREE EXAMINATION - CHEMISTRY

CH 5505 - ORGANIC FUNCTIONAL GROUPS - II

FIFTH SEMESTER - NOVEMBER 2016

CLUSTERT LAN VESTILA	CH 5505 – ORGAN	VIC FUNCTIONAL	, GROUPS - II
Date: 01-11-2016 Time: 09:00-12:00	<u> </u>		Max. : 100 Marks
Time. 09.00-12.00)		
Answer ALL question	S	PART- A	(10x2 = 20 marks)
 Convert aniline in Define racemizat Write the Fischer Obtain dimethyle What is Cope rea Give an example State isoprene and Pyridine does not 	projection formula of D-ther from diazomethane.	glyceraldehyde. gement reaction. action. Why?	nesis?
10. How will you est.	mate memoxy group in ai	Kaiolus!	
		PART-B	
Answer any EIGHT que	estions		(8x5 = 40 marks)
(ii) Sandmey 12. Discuss the reduce 13. Explain the effect 14. Enumerate the ch 15. Describe the option 16. Discuss any five of 17. Convert Malonic (i) Barbituric (ii) Cinnamic 18. Explain Pinacol-I	acid acid Pinacolone rearrangement unt on the classification of	sicity of aniline. nethods for the resolution in	tion of racemic mixture. (3+2)
22. Give the structure H ₂ /Pt	ration of Quinoline by Sk e of compounds A- E. CH_3I AgOH, Δ $A \longrightarrow B \longrightarrow C$	CH ₃ I	

D.DE. G	
Answer any FOUR questions	(4x10 = 40 marks)
23. Starting from benzenediazonium chloride how will you prepare (i) Phenol (ii) Anisole (iii) Benzene (iv) Biphenyl (v) Phenyl hydrazin 24. Write notes on	ne. (2 marks each)
(i) Asymmetric synthesis (ii) Walden inversion.	(5+5)
25. Enumerate the synthetic uses of cyanoacetic ester.26. Explain the following rearrangement reactions with mechanism.(i) Beckmann (ii) Hoffmann (iii) Fries.	(4+3+3)
27. (i) Discuss the constitution of Citral.(ii) Write notes on Hoffmann exhaustive methylation reations.	(5) (5)
28. (i) Give a brief account on the isolation of thiophene from coal tar.	(5)
(ii) How will you separate 1^0 , 2^0 and 3^0 amines by Hinsberg test.	(5)
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