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CHEMISTRY PAPER - II : CH-242 Organic Chemistry & Analytical Chemistry - II (24136)

	Page ne :		Hours Max. Marks :	40			
	ln	1. 2. 3. 4.	tions to Candidates: Do not write anything on question paper except Seat No. Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil. Students should note, no supplement will be provided. All questions are compulsory. Figures to the right indicate full marks.	2			
1. a)		Ch	cose the correct answer of the following :	4			
		i)	EDTA is capable of forming co-ordinate bonds. a) 1				
		ii)	Paper Chromatography is example of chromatography. a) Ion exchange b) Adsorption c) Partition d) Gas liquid				
		iii)	Pyridine undergoes electrophilic substitution at position. a) 2 b) 3 c) 4 d) 1				
		iv)	In preparation of organolithium compounds, solvent is used.				
			a) Diethyl ether b) Water c) Alcohol d) Acetic acid				
	b)	Attempt any two of the following :					
		i)	Explain the term oxidising agent.	ŧ.			
	ii)	What do you mean by adsorption chromatography?					
		iii)	What happens when methyl lithium is treated with formaldehyde?				
		iv)	$CH_3 - CH_2 - CH_2 - CH_3 + 45 \xrightarrow{600^{\circ}C}$?				

2.		Attempt any two of the following :		
		i)	Discuss complexometric titration curve with reference to EDTA as titrant.	
		ii)	Define chromatography. Give principle of chromatography.	
		iii)	Give preparation of ethyl aceto acetate. How will you synthesise n-butyric acid from ethyl aceto acetate?	
3. a	a)	Answer any one of the following :		
		i)	Discuss estimation of Cu(II) by iodometric titration.	
		ii)	What is Grignard reagent? Discuss preparation of Grignard reagent.	
	b)	An	swer any one of the following :	4
-		i)	Explain the term ligand. Discuss types of ligands.	
		ii)	What is action of following on Naphthalene? a) H_2/pt b) Nitrating mixture (HNO ₃ + H_2SO_4).	
4.		Att	empt any two of the following :	8
		i)	Distinguish between iodimetry and iodometry.	
		ii)	How will you prepare aceto acetic acid from malonic ester?	
		iii)	What are organolithium compounds? Discuss preparation of organo lithium compounds.	
5.	a)	Attempt any one of the following :		
		i)	Discuss in details principle and technique of paper chromatography.	
		ii)	How will you prepare pyrrole from acetylene? What is action of following reagents on pyrrole? a) Conc.H ₂ SO ₄ b) CH ₃ COCI/AICI ₃	
	b)	De	fine the term chelating agent. Give examples.	2
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