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कड - 045

			CHEMISTRY PAPER	- II :	CH - 122		
	W.		Organic & Inorgan	nic C	hemistry		
P. Pag	es:2		(New) (12	136)			
Time :Two Hours						Max. Marks: 40	
	1. 2. 3. 4. 5. 6.	Do Ans dra Stu All Fig	ons to Candidates: not write anything on question swersheet should be written with wn with the same pen being us dents should note, no supplem questions are compulsory. ures to the right indicate full ma e of logarithmic table and non -	h blue i sed for ent wil arks.	nk only. Graph or diagra writing paper or black h I be provided.	IB pencil.	
1.	Atte i)	mpt	any eight of the following, oalkanes are derivative Halogen, Carboxyl,			8	
	ii)	The	carbon atom of the carbonyl gr	oup is			
		a)	sp hybridized.	b)	sp ² hybridized.		
		c)	sp ³ hybridized.	d)	dsp ² hybridized.		
	iii)	a) c)	ers are the alkoxy derivatives of Alkanes. Alcohols. tic acid on treatment with NaO Sodium acetate. Sodium acetate and water.	b) d)	Alkenes. Aldehydes. s Ethyl alcohol. None.		
	v)	n - p a) c)	propyl bromide on treatment wit n - propyl alcohol. propyne.	th aq. I b) d)	KoH produce Propene. Propane.		
	vi)	a) c)	ation of benzene is Nucleophilic Substitution. Electrophilic Substitution. ich one of the following is oxidiz	b) d) zing ag	Nucleophilic addition. Electrophilic addition. ent.		
		a)	HNO ₂	b)	K ₂ Cr ₂ O ₇ .		
		c)	Na ₂ S ₂ O ₃ .	d)	H ₂ C ₂ O ₄		
	viii)	Equ a) c)	uivalent weight of H ₂ SO ₄ is 49, 196 98	Its form b) d)	nula Weight is 9.8 49		
	ix)	10070000	dising agent is the species Which reduces some other s Which acts as electorn dona Which losses one or more el Which gain one or more electors	pecies			

		x)	End point is a state in titration at which			
2.		Answer any four of the following.				
		i) ·	Identify product A and B in the following reaction.			
			$CH_3 - CH - CH_3 + SoCl_2 \rightarrow A \xrightarrow{alc.KoH} B$ OH			
		ii)	What are ethers? Give one example of symmetrical and unsymmetrical ether.			
		iii)	$CH_3 - CHO \xrightarrow{HCN} A \xrightarrow{H_2O} B.$			
		iv)	Write balance equation for - Benzoic acid is refluxed with thionyl chloride.			
		v)	Give requirements of primary standard substances.			
		vi)	Define the term molecular weight. Give example.			
3.		Answer any two of the following.				
		i)	Write note on Aldol condensation.			
		ii)	What is nitration? Discuss nitration of benzene.			
		iii)	What are acid chlorides? How benzoyl chloride is prepared from benzoic acid.			
4.		Answer any two of the following.				
		i)	What are alcohols? Give classification of alcohols on the basis of number of – OH groups.			
		ii)	Give requirements of primary standard substances.			
		iii)	Explain calibration of pipette.			
	a)	An	swer any one.	6		
		i)	What is SN ¹ reaction? Explain its mechanism with energy profile diagram.			
		ii)	Discuss the terms molarity and normality units of concentration.			
	b)	Dr	aw the structures of following compounds.	2		
		i)	Naphthalene.			
		ii)	Thiophene.			