Model Question Paper

Ethers - Part II

12th Standard

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	Chemistry	Reg.No.:			
I	.Answer all the questions.		 		
	I.Use blue pen only.				
	II.Question number 15 is compulsory.				
Tim	ne : 01:30:00 Hrs		Total	Marks	
4١	Part-A			5 x 1	L = 5
Ι)	When diethyl ether reacts with chlorine in presence of sunlight it gives				
٥١	(a) α -chloro diethyl ether (b) α , α' -dichloro diethyl ether (c) perchloro diethyl ether (d) both (a) and (b)				
2)	Anisole is used in				
	(a) refrigerant (b) anesthetic (c) perfumery (d) substitute for petrol				
3)	R-O-R' indicates				
	(a) ketone (b) ether (c) ester (d) aldehyde				
4)	Which one of the following is unsymmetrical ether?				
	(a) $CH_3-O-C_2H_5$ (b) CH_3-O_CH3 (c) $C_2H_5-O-C_2H_5$ (d) $C_6H_5OC_6H_5$				
5)	The IUPAC name of $CH_3OC_2H_5$ is				
	(a) ethoxyl methane (b) methoxy ethane (c) ethyl methyl ether (d) methyl ethyl ether				
	Part-B			5 x 3 =	= 15
6)	How is anisole prepared in large scale?				
7)	When anisole is treated with HI, iodobenzene is never formed Give reason.				
8)	How does anisole react with conc. H_2SO_4 and conc. HNO_3 mixture?				
9)	Give any two differences between anisole and diethyl ether.				
10)	Give an example to show the functional isomerism exhibited by ethers.				
	Part-c			5 x 5 =	= 25
	How does diethyl ether react with PCl_5 one equivalent of HI and excess of HI?				
	Give the names and structures of all the is <mark>omers w</mark> ith the molecular fo <mark>rmula $C_4H_{10}O$.</mark>				
	Explain any two methods of preparing ethers from alcohol.				
	Write the structural formulae for α , α^1 -dichloro diethyl ether, phenetole, diethyl peroxide, anisole and diethyl oxonium hydrogen sulph	ate.			
15)	a) What happens when diethyl ether is treated with (i) Grignard reagent (ii) dilute and concentrated H_2SO_4 .				
	(OR)				
	b) Write anyone method of preparation of anisole, two chemical properties and uses.				
16\	Part-D			2X10	<i>i</i> =20
10)	a) Give any three methods of preparing diethyl ether.				
17\	b) Mention the methods of preparation of anisole.				
±1)	a) Explain the formation of CH_3I and phenol when anisole is heated with HI .				
	b) Write a note on the type of isomerism exhibited by ethers.				
