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V1 ⁻	12)	$2C_2H_5Br+2Na \xrightarrow{dry ether} C_4H_{10}+2NaBr$. The above reaction is an example	
	-	of which of the following	
		a) Reimer Tiemann reaction b) Wurtz reaction	• • •
		c) Aldol condensation d) Hoffmann reaction	
	14)	Of the following compounds, which has the highest boiling point?	
•	- · ,	a) n-butyl chloride b) isobutyl chloride	
· · · ·		c) t-butyl chloride	
6	15)	Haemoglobin of the blood forms carboxy haemoglobin with	L
		a) carbon di oxide b) carbon tetra chloride	-
		c) carbon monoxide d) carbonic acid	
,	7	Part - II	1
Ans	swer	r any 6 questions Q.no. 24 is compulsory 6 x 2	
·	.16)) What do you understand by the terms acidity and basicity?	
	11/	State Pauli's exclusion principle.	
•	10)) What is retrograde solubility? Give example.) Distinguish between diffusion and effusion.	
	20)	Explain intensive properties with two examples.	
	21)) Give the general characteristics of organic compounds.	
	22)) Explain inductive effect with suitable example.	
	23)) How do you prepare phenol by Dow's process.	And Co.
) Draw the Lewis Structures for the following species: (i) HNO ₃ (ii) O	
		Part - III	
An		er any 6 questions Q.No : 33 is compulsory.	
	29)) What is the difference between molecular mass and molar mass? Calculate the molecular mass and molar mass for sarbon mone evide	. ·
	26	the molecular mass and molar mass for carbon mono oxide.	
		 Explain the diagonal relationship. Explain the exchange reactions of deuterium. 	204
) Derive ideal gas equation.	
) If there is no change in concentraton, why is the equilibrium state considered dyn	• (j
	30`)) A 0.25 M glucose solution at 370.28 K has approximately the pressure of	
		does. What is the osmatic pressure of blood?	
		Explain electrophilic substitution reaction with an example.	
		 Expain how does greenhouse effect cause global warming? Identify the compounds X, X and Z in the following reaction 	
;	55	B) Identify the compounds X, Y and Z in the following reaction.	7
		$C_2H_6O \xrightarrow{Al_2O_3}{623K} X \xrightarrow{O_3} Y \xrightarrow{Zn/H_2O} Z$	he
1		2 6 623K Part - IV	-lai
A		er all the Questions : 5 x 5	
• ,		4) a_{i} (i) Define mole.	÷
<i>a</i> .		(ii) What are isoelectronic ions? Give examples. (OR)	
	÷	b) (i) Derive de Broglie equation showing the dual nature of matter.	
•	25	(ii) Give any two limitations of Bohr's atom model.	÷ 11
	35	 b) a) (i) Why hydrogen peroxide solution is stored in plastic containers? (ii) Define modern periodic law 	~
		(OR)	e e e e e e e e e e e e e e e e e e e
		b] (i) Discuss any two similarities between beryllium and aluminium.	
	36	(ii) Mentioin the uses of plaster of paris.	3
•.	50	5) a] State the various statements of second law of thermodynamcis.	
	Υ.		הר
	.27	(ii) Define the term 'isotonic solution' [2]	10
	57	7) a] Explain VSEPR theory. Applying this theory to predict the shape of IF ₇ . [5]	
· · ·		b]/(i) Explain the classification of organic compounds based on the structure	-
		with examples. [2]	
	30	8) a] (i) Write Friedel Craft's acetylation reaction. [3] (ii) Differentiate viable and non-viable particulate pollutants. [2]	
		(OR)	
ŕ	```	b] (i) Write Swarts reaction. [2] (ii) Write Sandmeyer reaction. [3]	
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1