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V1 <sup>-</sup>	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	<b>-</b>
		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 <sub>3</sub> (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.	
		<ul> <li>Explain the diagonal relationship.</li> <li>Explain the exchange reactions of deuterium.</li> </ul>	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.	
		<ol> <li>Expain how does greenhouse effect cause global warming?</li> <li>Identify the compounds X, X and Z in the following reaction</li> </ol>	
;	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	<ul> <li>b) a) (i) Why hydrogen peroxide solution is stored in plastic containers?</li> <li>(ii) Define modern periodic law</li> </ul>	~
		(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 <sub>7</sub> . [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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