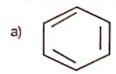
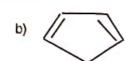
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	Class: 11		Register Number				
	FIRST REVISION EXA	MINAT	ION, JAI	NUAR'	Y - 20:	24	
Ti		EMIST			[Max.		ks : 70
		PART - I					
1.	Answer the following:					15	5x1=1
1.	Carbon forms two oxides, namely CO and Co						
	a) Carbon b) Oxygen		(a) and (b)				
2.	Which of the following does not represent t	he mathem	atical expression	on for the	Heisenberg	unce	ertainly
	principle?						
	a) $\Delta x. \Delta P \ge \frac{h}{4\pi}$ b) $\Delta x. \Delta V \ge \frac{h}{4\pi}$	<u>h</u> c)	$\Delta E. \Delta t \ge \frac{h}{4\pi}$	d)	ΔE. Δx ≥	$\frac{h}{4\pi}$	
3.	In a given shell the order of screening effect	is					
	a) s > p > d > f b) s > p > f > d	l c)	f > d > p > s		d) f > p	> s >	ď
4.	Water is a						
	a) Basic Oxide b) Acidic Oxide	e c)	Amphoteric C	oxide d)	None of the	iese	
5.	Which of the following has highest hydration						
	a) MgCl ₂ b) CaCl ₂		BaCl ₂	d)	SrCl ₂		
6.	Maximum deviation from ideal gas is expect						
	a) $CH_{4(g)}$ b) $NH_{3(g)}$		H _{2(g)}		N _{2(g)}		
<u>7</u> .	The bond dissociation energy of methane and ethane are 360 KJmol-1 and 620 KJmol-1 respective						tively.
	Then, the bond dissociation energy of C-C b			_			
	a) 170 KJmol ⁻¹ b) 50 KJmol ⁻¹	c)	80 KJmol ⁻¹	d)	220 KJmo	l-1	
8.	지명) 지명)		744.1				
	a) $\frac{[SO_3]}{[SO_3][O_2]}$ b) $\frac{[SO_3]^2}{[SO_2][O_2]}$	(c)	[SO ₃] ²	d)	[SO,]*	=	
	-						
<u>9.</u>	The Van't Hoff factor (i) for a dilute aqueous	solution of	the strong electi	rolyte barı	um nydroxi	de is	
	a) 0 b) 1	C)	2	a)	3	_	
10.	According to VSEPR theory, the repulsion be	70204				r.	
	a) l.p - l.p > b.p - b.p > l.p - b.p	b) d)	b.p - b.p > b.p b.p - b.p > l.p				
44	c) l.p - l.p > b.p - l.p > b.p - b.p		υ.p - υ.p > ι.p	- 1.p > b.p	ι-ι.ρ		
11.	The purity of an organic compound is determ a) Chromatography	b)	Crystallisation				
	a) Chromatography b) Melting or boiling point	d)	Both (a) and (
12	Which of the group has highest +I effect?		Dotti (a) and (-,			
12.	a) CH,- b) CH,-CH,-	c)	(CH ₂) ₂ CH-	ď	(CH ₃) ₃ C-		
13	Peroixde effect can be studied in case of	0,	(0113/2011	u)	(0113)30		
10.	a) Oct - 4 - ene b) hex - 3 - ene	c)	pent - 1 - ene	ď	but - 2 - en		
25		C)	pent - 1 - ene	u)	Dut - 2 - 61		
14.	Acetone $\xrightarrow{CH_3MgI}$ X , X is						- 1
	1120/11	propanol	c) 1 - propano	i di	acetanol		- 2
15.							
	a) highly pollluted	b)	poor in dissolv				
	c) rich in dissolved oxygen	d)	low COD				
		PART - B			i.		
11.	Answer any six questions. Question No. 2	4 is com	pulsory.			6x	2=12

16. Define Oxidation number.

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- Define electronegativity.
- 18. Why Gypsum is called desert rose?
- 19. Why do astronauts have to wear protective suits when they are on the surface of moon?
- 20. Write the relationship between ΔH and ΔU for an ideal gas.
- Write Raoult's Law.
- 22. Define Sublimation.
- 23. Which is considered to be earth's protective umberlla?
- 24. Which compound is aromatic.









PART - C

Answer any six questions. Question No. 33 is compulsory. 111

6x3=18

- 25. State Hund's rule.
- Mention the uses of deuterium.
- 27. Explain why liquid ammonia bottle is coded before opening the seal.
- 28. State law of mass action.
- 29. Explain the covalent character in ionic bond.
- 30. Write short notes on Hyperconjucation.
- 31. What would happen. If the greenhouse gases were totally missing in the earth's atmosphere?
- 32. Define entropy? What is the unit of entropy?
- Conc H2SO4 ? 33. Write the following reaction Chloral + Chloro Benzene PART - D

IV . Answer all the questions. 5x5=25

An acid found in tamarinds on analysis shows the following percentage composition 32% carbon, 4% hydrogen, 64% oxygen. Find the empirical formula of the compound. (5)

(OR)

- How many radial nodes for 2s, 4p, 5d and 4f orbitals exhibit? How many angular nodes? (3) b) (i)
 - (ii) Define Orbital.
- 35. a) What is lattice energy? (i) (3)
 - Define enthalpy of neutralization. (2)

(OR)

- What are isotopes? Write the names of isotopes of hydrogen and explain.
- Derive the relation between K, and Kc. (5) 36. ∵a)

(OR) -

- b) What is osmosis. (2)
 - State and explain Henry's law. ...
- 37. a) Derive the value of crtitical constants in terms of Vander Waals constants. (5)

- Explain paper chromatography. (5) b)
- <u>38</u>. a) Write Williamson ether synthesis. (3)
 - Preparation of Chloropicrin. (2)

" (OR)

On the basis of chemical reactions involved, explain how do CFC's cause depletion of ozone layer in stratosphere. (5)

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