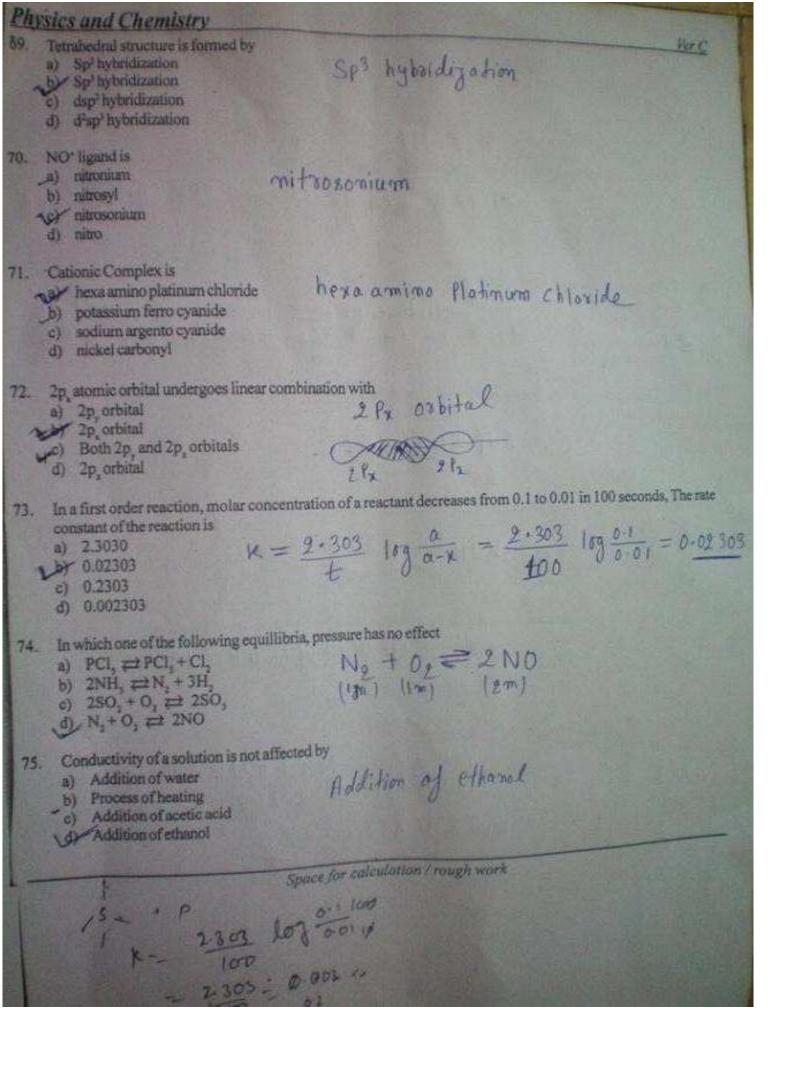
12



Physics and Chemistry		13
76. The lowering in vapour pre- a) 0.1M urea b) 0.1M NaCl c) 0.1M MgCl, d) 0.1M K, [Fe(CN),]	ssure is maximum for	2.
77. Bromo ethane and isoprop	yl chloride with metallic sodium in other forms	
a) Pentane b) 2-methyl butane c) 3-methyl butane d) 2:3 dimethyl butane	CH3CH2Bx + CH3-CH-CL> CH3-CH2-CH-CH3+1	Bell
78. To dry ammonia gas the di	rying agent used is	
a) Con, H,SO, b) P <sub>2</sub> O, c) soda lime d) anhydrous CaCl,	The moisture present in ammonia cann't be dried by conc. Hz SO4, and glove Calle and &	
79. The metal hydroxide which	ch is soluble in excess of ammonium hydroxide is	834
a) Fe(OH), b) Fe(OH), of Cu(OH), d) Al(OH),	Cu(OH)9_	
80. Potassium dichromate ca	an be converted to potassium chromate by adding	TE
b) Con. H,SO, c) NH,OH d) acetic acid	KOH	
81. 0.5g of an acid is neutral	lized by 40cc of 0.125N NaOH. The equivalent mass of the acid is	
a) 50 b) 100 c) 40 d) 80	100; Ear weight of NoOH = 40	
82. 5 liters of NaOH solution	on of pH 12 contains	
a) 200g b) 0.2g	on of pH 12 contains $poH = 2  ;  [OH] = 1 \times 10^{-2} \text{ M}$ $WeigHk(NaOH) = 409$	
c) 20g d) 2g In 5	Liku= 5 X 40 X 1 X 10 -2 = 29	NI PO
	Space for calculation (rough work	50
est c- c - c-		
٥- ٥- ٥- ٥	E = 0.134 /2000 1= 1000 40 13 m	
pely -	00 1000 - 1000 to	18 3



## Physics and Chemistry $50cc\ of\ oxalic\ acid\ is\ oxidized\ by\ 25cc\ of\ 0.20\ N\ KMnO$ The mass of oxalic\ acid\ present\ in\ 500cc\ of\ the solution is (a) 3.15g b) 31.5g c) 6.3g d) 63g (oxalic ocil) 84. Pure water is neutral because $\sqrt{a}$ PH = 7 PH = 7 b) Litmus has no effect c) It is free from dissolved salts d) PH = 085. In the titration of Mohr salt against KMnO<sub>4</sub>, the indicator used is a) diphenyl amine KMmO4; Mohr Satt against KMmO4, doesn't meed any external indicator. \b} KMnO₄ \_c) phenolphthalein d) Methyl orange 86. The relationship between half life of a reaction and the order of reaction is t/2 \( \frac{1}{a^{(m-1)}} d) $t_1 \propto \frac{1}{a^{(n-1)}}$ 87. 6gm of urea is dissolved in 90g of water. Relative lowering of vapour pressure is 13/0.02 b) 0.2 HONCONHO c) 0.002 d) 0.04 6.84g of sucrose is dissolved in 200g of water. The molality of the solution is a) 0.2M Molecular Weight of Sucrope (C12H22O11) = 342 b) 0.3M 1500g of woter = $5 \times 6.84 = 34.2$ The lality = $\frac{34.2}{34.2} = 0.1M$ Space for calculation/rough work 2c) 0.1M d) 0.02M NX500- 25 x 0.20 con , coo.

