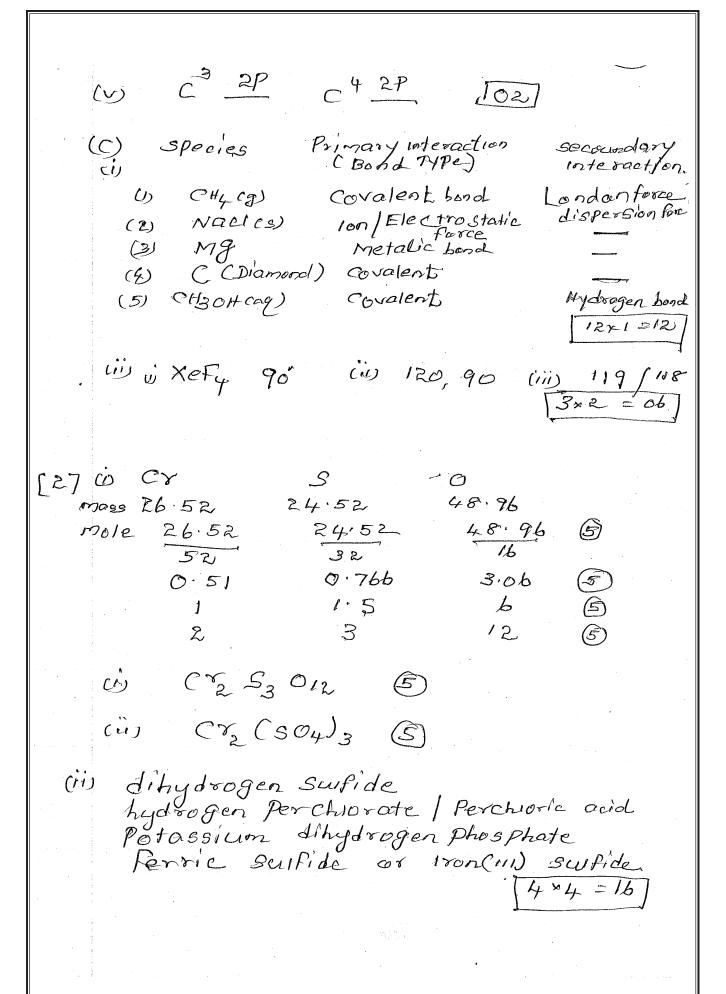
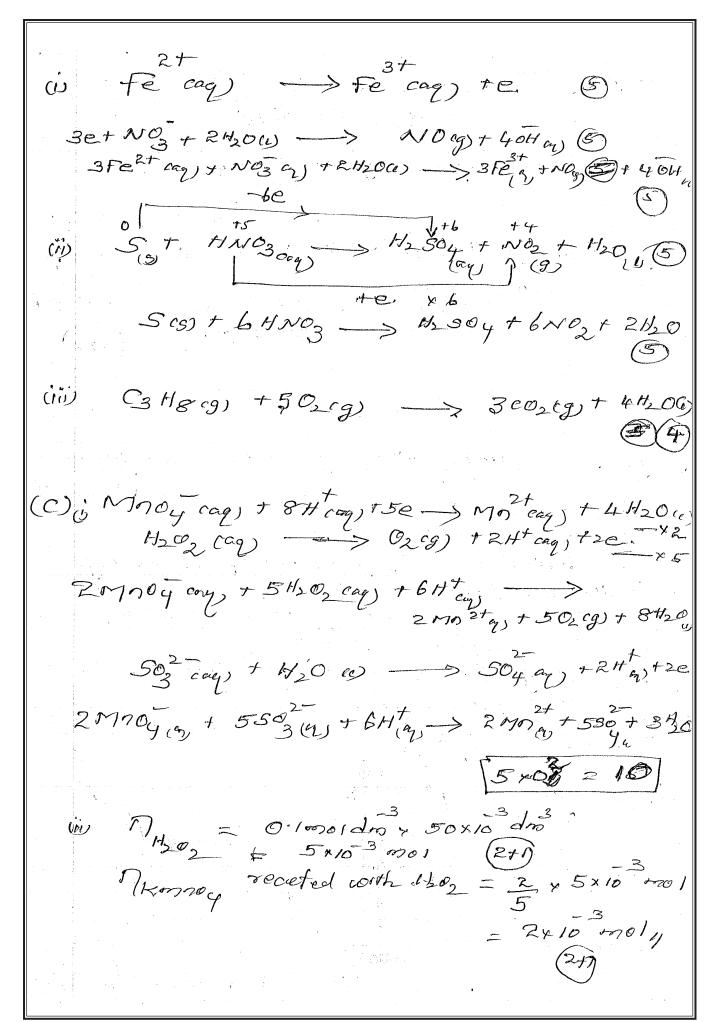


தொண்டைமானாறு வெளிக்கள நிலையம் நடாத்தும் முதலாம் தவணைப் பரீட்சை - 2022

Conducted by Field Work Centre, Thondaimanaru. 1st Term Examination - 2022

fwc 1 st Term Examination - 2022				
Chemistry		Gr -12 (2023)	புள்ளித்திட்டம்
Part – I				
1) 3	6) 4	11) 3	16) 5	21) 2
2) 5	7) 5	12) 5	17) 4	22) 4
· · · · · ·	· ·	· ·	*	· ·
3) 1	8) 1	13) 4	18) 3	23) 3
4) 3	9) 4	14) 2	19) 2	24) 5
5) 2	10) 2	15) 3	20) 4	25) 4
· 	gtrueture		0560 (1	, Nala
.d	(a) & CI (ii) X & F ₂ - (wi) SF ₆ :0:	(ii) (iv)	34 C 03 (V)	6×6 = 36
(b) i) (#3-c-N=N=N: [08] ii) e+3-c-N-N=N:				
(ii) et 3 - C - N - N = N:				
2-19:				
$\frac{2}{2} \frac{1}{2} \frac{1}$				
CA = 0 - N = N - N				
-10,2 - 25 @mzzy				
OR CH3-C=N=N=N;				
		[3	2 0 +1) ×3 =	12
	(mi)	01	N	3 6
	USEPR Pair Electron Pair geometry	Terrahed	ral Tetra hedral	3 4 Prigoral Tetra Praner hadral
	My bridizat		Trigonal Pyramidal Sp3	Trigonal Ferra Planer hedral 3p2 3p3
	(w) 0' 5p'	N2.		[4×4=16]
	$\begin{array}{ccc} C^3 & 3p^2 \\ C^5 & 3p \end{array}$	c5 - ci6	3p3/3p	8-x1 = 8





17 so2- = 0.1 moldon x 50x 10 dm3 = 5x 10 mol (21) nkonnoy (remaining) = 2 1 5x10 mol 7 (Kmnoy) = 4x10 mol (2+1 [Kanno4] = 4×10 mol = 0.04molding 03/in A - sodium (B) magnesium (c) Aluminium ci) ALCLB atomic rodius A>B>C Electronic configuration of Borma is in full fill arrangement in 5 orbit. Therefore more Cnergy is needed to remove Valore cheet oon of mg. or sonance lan 152 252 2p6 352 (iv) A 152252 2pt 351

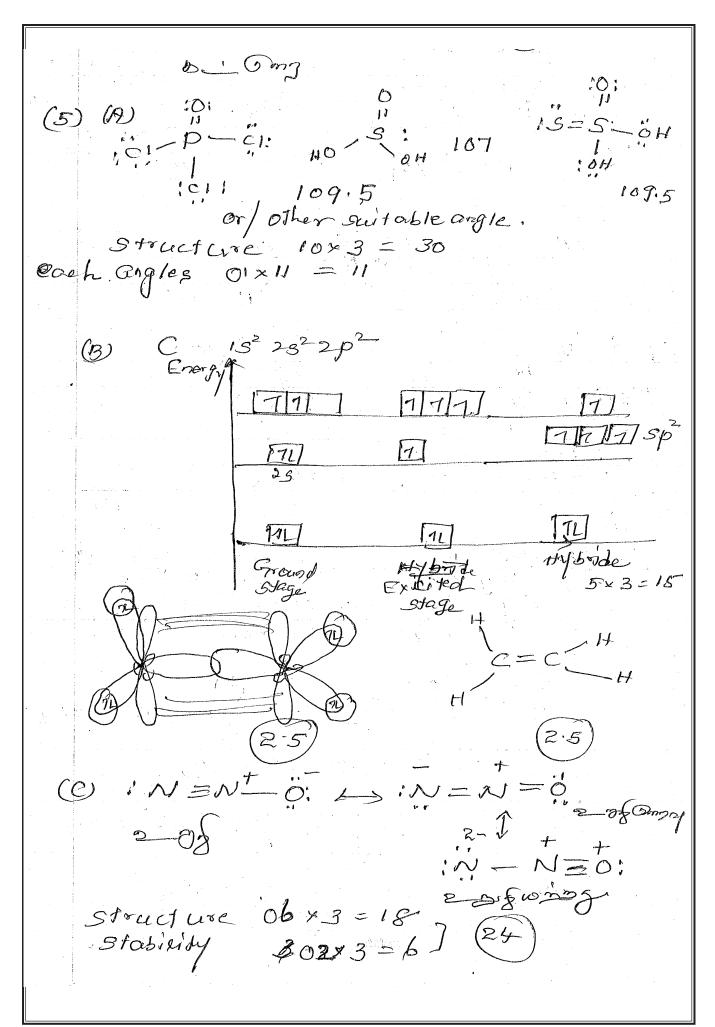
(Suitable Clses (To (B) is CI F3. number of Valance Electron pair = 5 number of VSEPR Pair = 5. " a 5 pairs = 3
" Lone pairs = 2 Shape T- Shape. @ number of VSEPR pair = 5. (2)

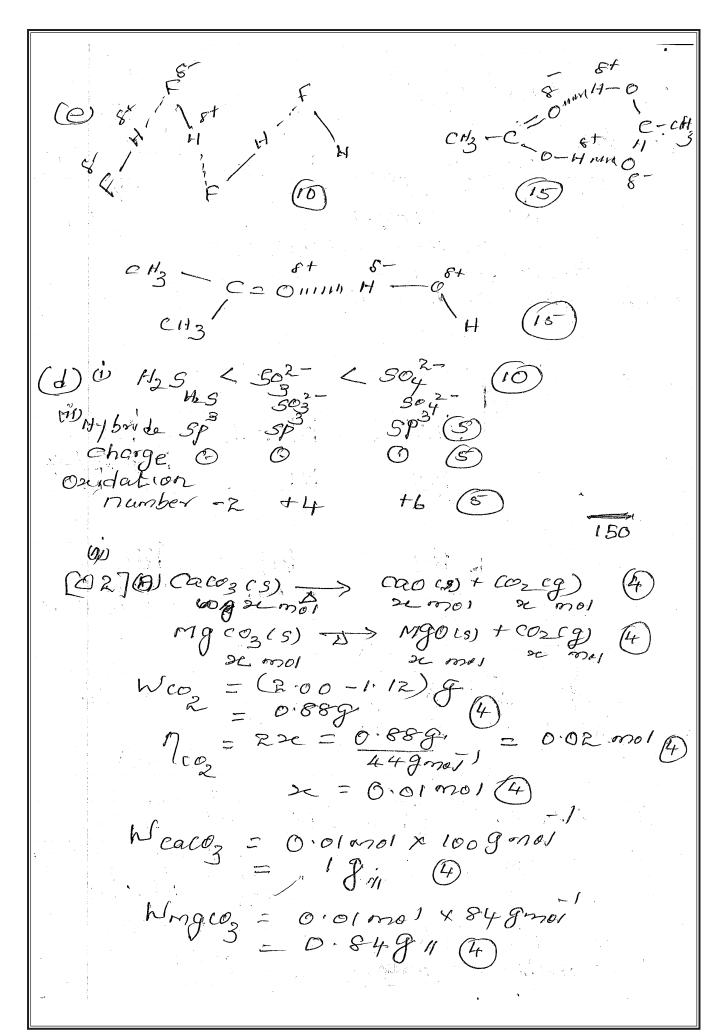
1. 1 6 Pair = 4 (2)

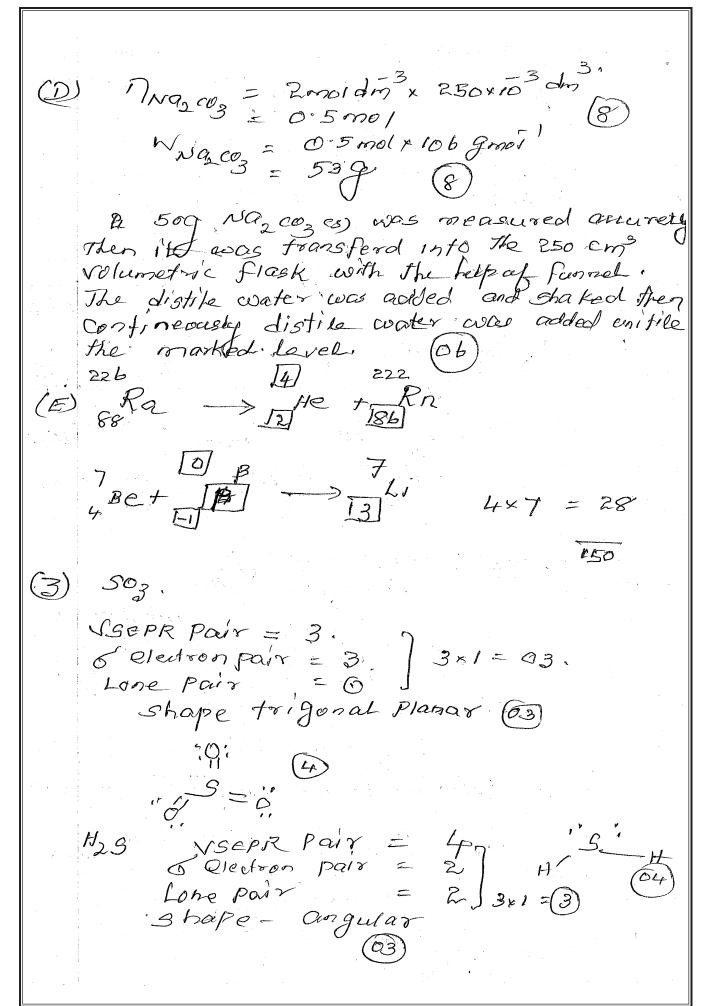
1. Lone pair = 1 (2)

Sheepe - Sea-San (4) I Sion I Mg II Naci CO2 6×5 = 30 A1203 (4) is [HC/cay,] = 36.5 x 1.17 x 10 g dm = 11.7 molder 3/1 (5 du hydrochloric acid (05) (iii) 11-7 moldm × V cm = 5 moldm x 250cm V= 106 847 (B) distile. Initially snall amount of cooler was taken into a 250 cm3 volumetric Plaste Then 106. 84 cm3

11.7 molding Conc. Hel was added slowly Then vwater was added unitle The of mark of the volumetric Plask. (5) (W) HCleans +NOOH can -> Naclay + 1/200) AHC1 = 2moldm x 100 x 10 dm 1 NAOH = 1 Anoldon 3 x 100 x 10 don3. . L', remaining mole of Ht is = 0.1001 $T = \frac{1}{200 \times 10^{3}} = \frac{10}{200 \times 10^{3$ (v2KMno4+16HC1 -> 2Mno2+502+2KC) (B) (D) A cay) + 3 150 -> A03 cay) + 6 14 + (5-n) Mnoy + 811+ +5e -> MD = + 4H20 (15) 5A+ 151/20 + (5-n) MODY + (5-n) 8H -> 5 793 + 30 Htg. + (5-n) Mn2+ $\frac{110000}{100000} = \frac{2.68 \times 10^{-3} \text{ mol}}{1.61 \times 10^{-3} \text{ mol}} = 1.66 \text{ s}$ 1.66 n = 3.3. (5-n) 0=, 2/(5)







PHZ. VSEPR Pair = 4 6 Pair = 3.][3x1=3] 1+ 14 (64) Lone Pair = 1 Shape Trigonal Planar. (03 (c) E = h2c = h2 $E = 6.626 \times 10^{-34} \frac{1}{3} \times 3 \times 10^{8} ms$ (6) $\sqrt{5}$ $\sqrt{5}$ $89 \times 10^{9} m$ = 203.23 × 10 V moi = 203.23 KJ mos / (1D) CO ! H20
2: 1
C: H

1: 1 molecular 5

Emphrical Formula (CH) Oy 5

Emphrical formula (CH) > C y 5 132 + 1by = 152 (5)

Oeffronimated maximum mass af 0 = 40 x 152 = 60.89.5 700 (affronimate) = 60.89 = 3.8 cecurate mole af 0'= 3 5 1 132 + 16 x3 = 152 132e = 104 24 = 811 (8) C8'H803 11 5 140 (E) b $c_{2}o_{7}^{2} + 14H^{f} + be$ $\Rightarrow 2er + 7H_{20}$ $H_{2}S = 9S + 2H^{f} + 2e$. $c_{3}o_{7}^{2} + 8H^{f} + 3H_{2}S = > 2cr^{3f} + 3S + 7H_{20}$ $3t + 2H^{f} + 2e$. $c_{3}o_{7}^{2} + 8H^{f} + 3H_{2}S = > 2cr^{3f} + 3S + 7H_{20}$ KZEZOTA (ii) Mnoy + 8H + 5e -> Mn²⁺ + 4H₂0

Fe²⁺ -> Fe³⁺ + e. -0

Gog²⁻ -> 200 + 2e B C204 -> R3+ + 2 CO2 + 3e 3Mn04 + 24H + 5Fee204 -> 3Mn2+ + 5Fe3+ + 10Cg+ 12H20 150 திருத்தம் Tronging of Good Song (2) b(1)
Fe 2+ + NO + H20 -> Fe3+ NO + OH Di Gm70507 (2) (B) N/504. De H20 M = 24 M 504. 20 H20 Dog 809