



## தொண்டையானாறு வெளிக்கள நிலையம் நடாத்தும் முதலாம் தவணைப் பரீட்சை - 2022

Conducted by Field Work Centre, Thondaimanaru.

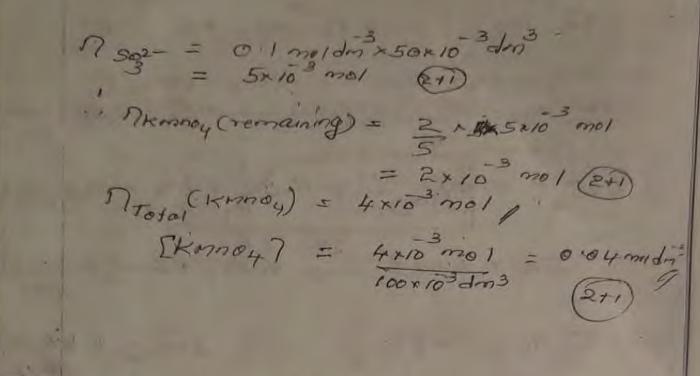
1st Term Examination - 2022

FWC 1 <sup>st</sup> Term Examination - 2022				
Chemistry		Gr -12 (2023)	Light of the state	الله الله
Part - 1				
1) 3 6)		) 3	16) 5	21)2
			17) 4	2274
2) 5 7)		2) 5	18) 3	23) 7
		3) 4		2415
		1) 2	19) 2	
5) 2	0) 2	5) 3	20) 4	25) 4
gtrui	eture	1	2	
I (a) is co	SFL XeFZ (II)	P and sre	03 (N) HE10	36
(b) (b)	C#3 - C-N	ニボニゾ:	08)	
فن	en3 - c -	ハーガョル	* *	
	2 34	÷ 10;		
*	100		J = J I	
	F	-25 -25 -25 -25 -25 -25 -25 -25 -25 -25	2 33.	
	CH	13 - 2 =	ar - No	
		m (Donne 2)	*1	
OR	- 101	+ + 1		
	CH3 - C =	エールニ	N:	
			2 83000	pal
		(3+1)	V3 = 12	1
0.55%			Nº E	c.E
(11)	or Poir	1:	4 3	4
C)ec	tron Pair	Tetrahedral '	Teloa Trigor	
	geome my	Maria de la compania del compania del compania de la compania del la compania de		
1000	lecular shape	angular 7	rigard Trigod	
144	bridization	sps	5p3 5p	
		- 2	TAX	4 = 16
(iv)	0' 5P	Nº SP.		
40	Nº SP	C3 570.2		
		cs . 51	3	
	23 -952	ci6 4	1/3P 18×	v - s-1
	e5 -3 P	ScienceFa	COM-	1 = 8
			GILLICOIII	

1021 secoundary (C) species Primary interaction interpotton. Londonforce Covalent bond Us CH4 (g) dispersion for rentalic bond Nacles (2) (3) ( CDiamond) Covalent (4) Hydrogen bond (5) (H30H (mg) Covalent 12×1012 (ii) ii Xefy 90 (iii) 120, 90 (iii) 119 [18 127 00 CY 48.96 mass 26.52 24.52 mole 26.52 48.96 24,52 (5) 32 0.766 3.06 0.51 1.5 is C 2 53 012 (i) (72 (504)3 (5) (ii) dihydrogen Swride hydrogen Perchiorate | Perchiorie acid Perrie guilide or iron(111) sculide 4 4 4 = 161

is fe cag) -> fe cag) te 5 3E+NO3+2420(1) -> NOg)+40Hay (5)
3Fert any)+NO3 (2) +RH20(1) -> 3Fert +Nag (5) 146H (ii) 55 + HNO3000 > H2504 + NO2 + H20(5) 5 cs) + 6 HNO3 -> 12 904 + 6 NO2 + 21/20 (iii) C3 H8 cg) + 502 cg) -> 3 co2 tg) + 4 H200) (C) is Mnoy rag + 8# rag ) T5e -> Mn rag ) + 4 H2010 H202 (cq) -> 02(g) + 2# rag ) +2e - ×2 2Mn04 cong, + 51/202 cag) + 6Ht cm => 2Mn2+ g) + 502cg) + 8420, 503 coup + H20 00 - > 504 ap +2H m)+20 2 Mnoy (m) + 5503 (y) + 6Ht -> 2 Mno + 530 + 840 5 -08 = 10 (m) My = 0.10001 dm + 50x10 dm = 5x10-3 mol (2+1) Transported with 1202 = 2 x 5x10 mo) = 2×10 moly

Grade 12 (2023) 1st term 2022



[03] WA - sodium (B) magnesium (C) Alleminium [573 = 15]

atomic rodius A > B > C

Electronic configuration of B or mg is

in full fill arrangement in 5 orbit.

Therefore more energy is needed to remove

Valorie charlen of Mg.

Mg or give marks for szurjable -

Te sonance. 10.

D. Dunger Ding.

www.Science\_\_ggle.com

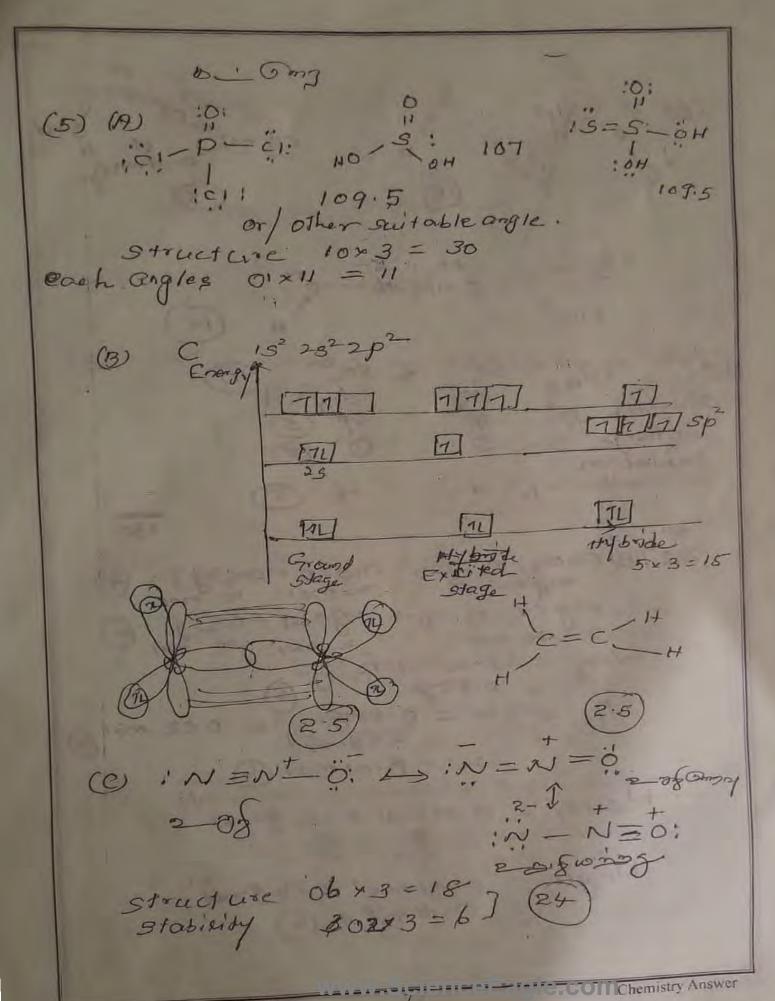
W suitable cises (10 (B) w C1. F3 number of volunce-Electron pair = 5 number of VSEPR Pair = 5 3 " " > 5 Pairs = 3 (2) " 1 - Lone pairs = 2 Shape T- Shape. 4 Ub 5 F4 number of VSEPR Pair = 5. (3). 11 1 6 pair shape - sea - san (4) 8102 Mg Nacl TW CON V A1203. 6×5 = 30 (4) is [HC/cay, ] = 36.5 x 1.17 x 10 g dm = 11.7 moldin 3/1 (55 du hydrochloric acid (05) (iii). It 7 moldin x V cm = 5 moldin x 250cm V = 106:847 (E) a 250 cm3 volumetric Pask, Then 106.84 cm3

Chemistry Answer

Grade 12 (2023) 1st term 2022

4.7 molding 3 conc. Hal was added slowly There I water was added unitle the of mark of the volumetric flags. (5) (IV) HCI cay + NGOH CON -> Naclay + 1/200) AHCI = 2 moldin x 100 x 10 dm3 1 0.2 mol MAOH = 1001 dm3 x 100 x 10 dm3 1 . . . remaining mole of Ht is = 0-land/ I [Ha] = 0.1 mol = 0.5 moldry),

Zooxlo3dm3 (10) (v2KMno4+16HC1->2Mno6+506+2KC) (B) ( A cay) + 3 1/20 -> AO3 cay) + 6 1/4 + (5-n) Mnoy + 811 + 50 -> MD2+ + 4H2045 5 Ant + 15 1/20 + (5-n) MADOY + (5-n) 8H -> 5 1703 + 30 Htm. + (5-n) MADOY +  $\frac{1100}{1100} = \frac{2.68 \times 10^{-3}}{1.61 \times 10^{-3}} = \frac{1.66}{1.66} = \frac{1.66}{5}$   $\frac{1.61 \times 10^{-3}}{1.66} = \frac{1.66}{5}$   $\frac{1.66}{5} = \frac{3.3}{5.3}$   $\frac{1.66}{5} = \frac{3.3}{5}$   $\frac{1.66}{5} = \frac{3.3}{5}$ 



150 (B) (2003 (S) -> (20 (s) + (02 (g)) (4)

mg (03 (s)) -> Mgo (s) + (02 (g)) (4)

se mol 2 mel 2 mel 4

W (02 = (2.00 - 1.12) G

1 = 22e = 0.88 G

1 = 0.02 mol 4 (00) Weace = 0.01 mol x 1009 mol

= 18/11 (4)

Wingcoz = 0.01 mol x 848 mol

= 0.84911 (4)

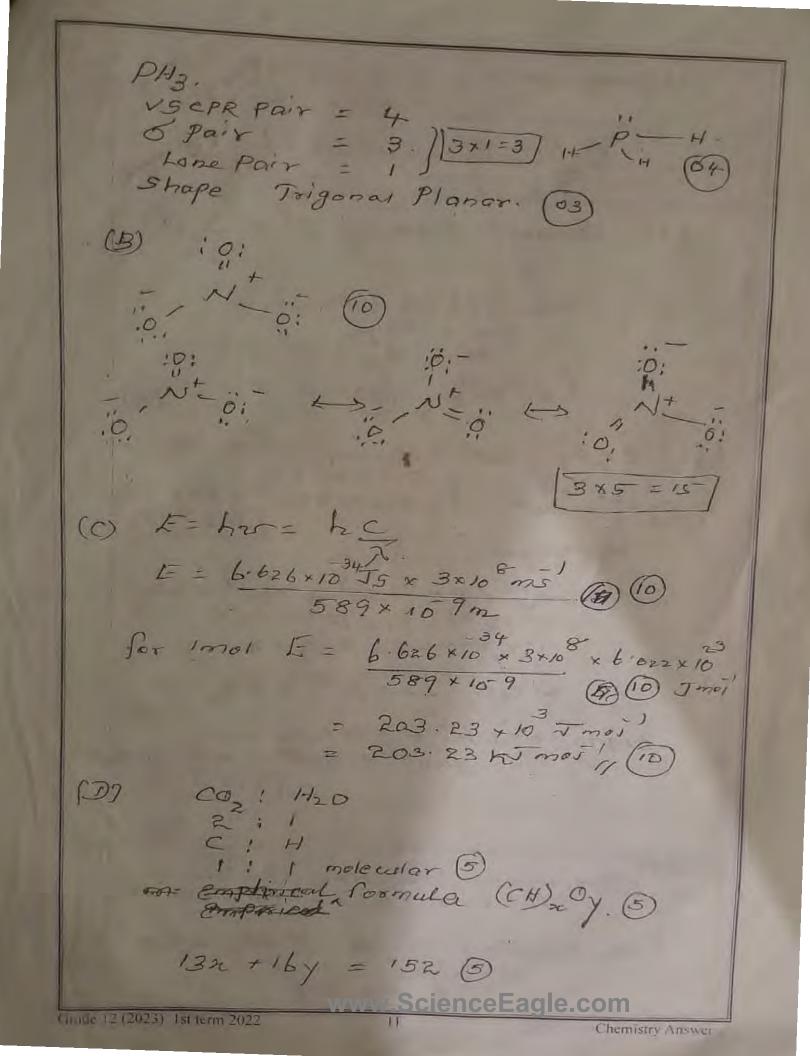
www.ScienceEagle.com

(D) Mazog = 2 molding x 250 x 10 3 dm 3 1 Nazog = 0.5 mol + 106 gmoi | (8) & 500 Nazcozes) was reasured assured Then it was fransferd into The 250 cm3 volumetric flask with the help of funcel The distile water was added and that ked then Confineousky distile water was added enitile the marked level 222 (06 (E) 88 Ra -> 12 He + Rn 7 Bet 10 B - 3 Thi SSEPR Pair = 3. & electron pair = 3. ] 3x1 = 03. Lone Pair = 0 shape trigonal Planar (03) H29 VSEPR Pair = 49 S.

Selection pair = 2 H'

Lone pair = 2 3x1=3

Bhape - angular



alfronimated maximum mass uf 0 = 40 x 152 = 60.8 g 5 70 (all ruximate) = 60.89 = 38 in accurate more of 0' = 3 (5) 132 + 16x3 = 152 1320 = 104 C8.4803 11 3 [40] (E) U C 207 + 14H+ + be -> 2er + 7/20 CXO7 + 14H + 10E + 2H + 12E .

CXO7 + 8H + 3H2S -> 2 CV3+ + 3S + 7H2O

[3x5 = 15] KZEZQyta (i) Mnoy + 8H + 15e -> Mn2t + 4H20 Fe 2d -> Fe 3t +c. -0 C2Q2- -> 2FQ +2e Re C204 - > Re 3+ + 2 CO2 + 3e (2) 3mnoy + 24H + 5 Fe 204 -> 3mnoy + 24H + 5 Fe 204 -> 12.140 திருத்தம் Transwigh & - Gong Song (2) b(1)
Fe 2+ + NO + H20 -> Fe3+ NO + OH M = 24. M504. 2 (MAN) Sey: 803.

wade 12 (2023) 1st term 2022



