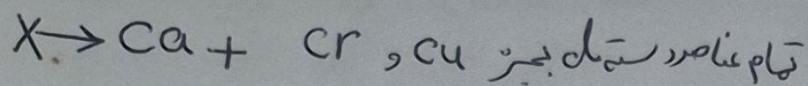


ایرین بجای

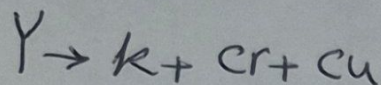
تجلی می کند در سترخ

$$n=2, l=1 \Rightarrow 2P \rightarrow 4e^- \rightarrow n=4=4e^- \rightarrow 4s^2 4p^2$$

۷۶-۳



۷۷-۲



$$X \begin{cases} e + P = w \\ e = P + n \end{cases} \Rightarrow w = 2P + n$$

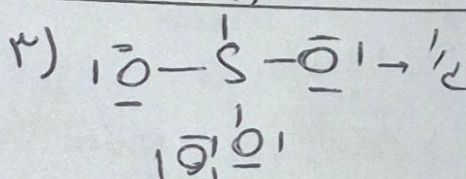
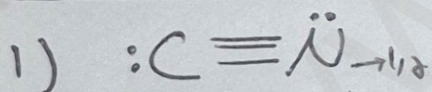
۷۸-۳

$$3 < Z < 10$$

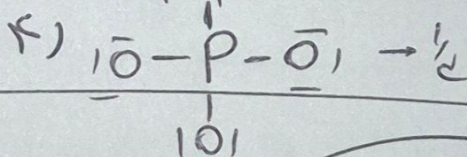
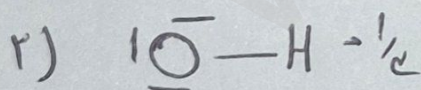
چون عنصر X یون متقی دارد برای هر سوم $15 < P < 17$ و $1 \leq n \leq 3$

$$P = 17, 18, 19$$

$1 \leq w \leq 17 \rightarrow w = 7Z \Rightarrow w = 35 \rightarrow Z = 5 \rightarrow$ پروتیه ۱۳

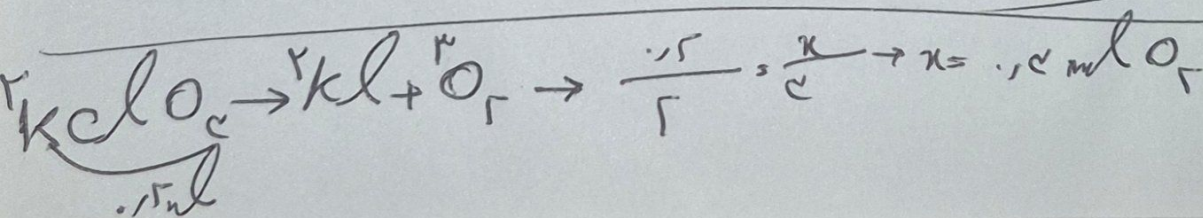


۷۹-۱



۱۰۱

۸۰-۴ (در قسمت)



۸۱-۲

۲-۸۲

$$S = -\frac{1}{4} \theta + \frac{220}{4}$$

۲-۸۳

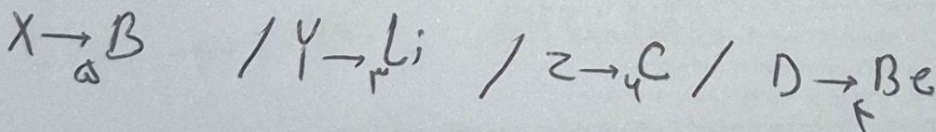
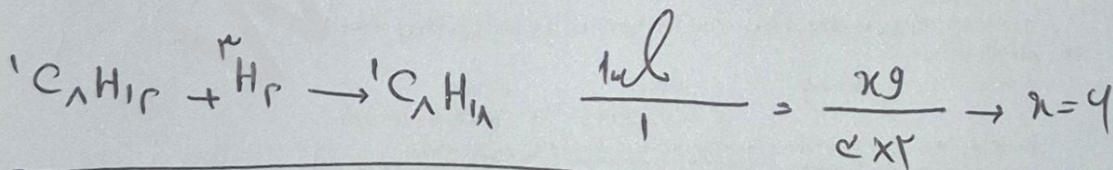
$$4 \text{ kg} \times \frac{5 \text{ kg}}{10 \text{ kg}} = 2 \text{ kg}$$

$$\begin{array}{c|c} 100 \text{ g} & 20 \text{ g} \\ \hline x \text{ g} & 20 \text{ g} \end{array} \rightarrow x = 100$$

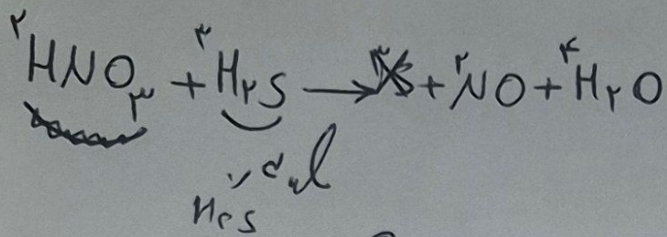
۱-۸۴

$$C_n H_{2n+2} O \rightarrow C_n H_{2n+2} O \rightarrow \frac{1}{1} = \frac{4}{n} \rightarrow n = 4 \rightarrow n = 15$$

$$\frac{1 \cdot 18 \cdot 1}{18} = 1$$



۳-۸۴



			NO	H ₂ O
قبل	۰	۰	۰	۰
بعد	۰	۰	۲x	۴x

$\Rightarrow x = 0.75 \%$

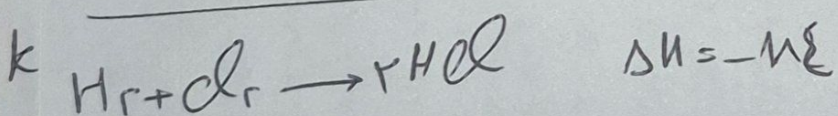
$$\Sigma x + 2x = 1 \Rightarrow$$

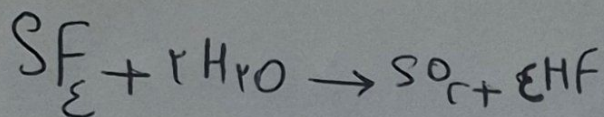
$x = 0.1 \text{ mol}$

H ₂ S مقدار مصرفی	از ده
۰.۳	۱۰۰٪
۰.۲۲۵	x

۸۹-۲ واکنش (II) ضرب بر ۱ - (۲) واکنش (I) ضرب بر ۱

۳) $\Delta H' = -527 \rightarrow \Delta H' = -83 + 32. + \Delta H' \rightarrow -310 = -83 + 32. + \Delta H'$

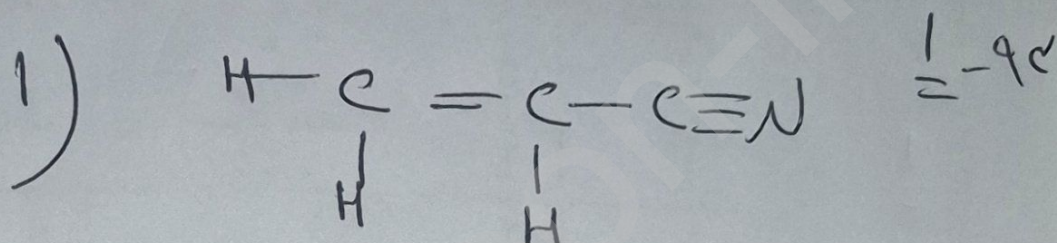




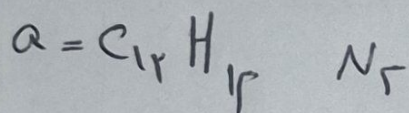
2-92

$$r.s. \rightarrow \frac{\frac{r \cdot \delta}{\Delta F}}{\frac{1}{\epsilon}} = \frac{x_{HF}}{\epsilon} \rightarrow x_{HF}$$

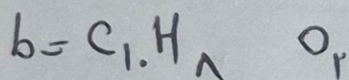
$$R_{HF} = \frac{\frac{1}{\epsilon}}{\frac{1}{\epsilon}} = .148$$



1-92



2-93



2-94

$$PH_{HCl} = 2 - \log r = (2.14) \rightarrow [H^+]_{HA} = 2 \times 10^{-2}$$

3-94

$$K = \frac{[H^+]^r}{M} \Rightarrow M = \frac{2 \times 10^{-4}}{2 \times 10^{-2}} \Rightarrow 2 \times 10^{-2} \rightarrow [H^+] = M \times \alpha \rightarrow \alpha = 1.2$$

$$HA \text{ جم} = 2 \times 10^{-2} \times 0. = (29)$$

$$\alpha = 1\%$$

$$m_{HA} = M \times V = 2 \times 10^{-2} \times 2 \times 10^{-1} = 4 \times 10^{-3}$$

$\sum -AV$

$\underline{1} \rightarrow -9A$

$$\overset{\curvearrowright}{\text{Ques}} \rightarrow Y \supset A \rightarrow E_Y < E_A$$

$$\overset{\curvearrowright}{\text{Ques}} \rightarrow A^+ \supset X^+ \rightarrow \overset{\curvearrowright}{\text{Ques}} \rightarrow X \supset A \rightarrow E_X < E_A$$

$\underline{1} \rightarrow -9A$

$$rX^{n+} + bcr \rightarrow bcr^{c+} + rX \rightarrow \text{ب. و. م. ب.} \Rightarrow b \times r = r \times n \Rightarrow r = \frac{b}{n}$$

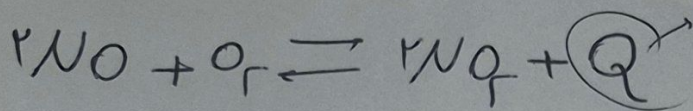
$$n = b \checkmark$$

$$\frac{\text{r. f. mler}}{b} = \frac{\text{r. rule-}}{r} \rightarrow \boxed{b=1}$$

$\underline{2} \rightarrow -1.1$

$$\odot c > a, b > d \Rightarrow c > a > b > d$$

$\underline{1} \rightarrow -1.2$

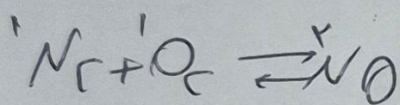


درجه

2-3-1.3

$$\frac{|\Delta m NO|}{|\Delta m NO_2|} = \frac{2 \text{ ml} \times 2}{1 \text{ ml} \times 2} = 1/1/2$$

2-1.3



2-1.3

	N_2	O_2	$2NO$
مبدأ	1	1	0
تغییر	-x	-x	+2x
در تعادل	1-x	1-x	2x

$$K = \frac{\left(\frac{2x}{\omega}\right)^2}{\left(\frac{1-x}{\omega}\right)^2} = 4$$

$$\Rightarrow 4 = \frac{\left(\frac{2x-2x}{\omega}\right)^2}{\left(\frac{1-x}{\omega}\right)^2} \Rightarrow x = \frac{1}{2} \text{ ml}$$

$$[N_2] = \frac{\frac{1}{2} \text{ ml}}{\omega L} = 0.125 \text{ mol} \cdot L^{-1}$$