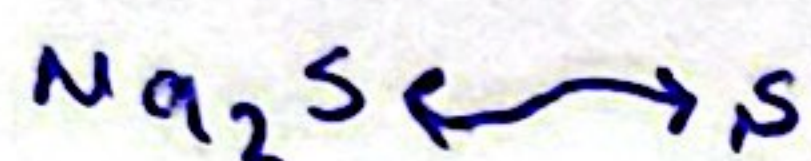


$$\begin{aligned} \text{Na}_2\text{S} &= x \text{ gr} \rightarrow \text{مردار} = \frac{x}{78} \\ \text{NaF} &= 6 - x \text{ gr} \rightarrow \text{مردار} = \frac{6-x}{42} \end{aligned}$$

(85)

7x = 78 - 13x → x = 3,9



$$\frac{3,9 \text{ gr}}{1 \times 78} = \frac{x}{1 \times 32} \rightarrow x = 1,6 \text{ gr}$$

1,6 gr S 500 gr علول

$\frac{x}{10^6} \text{ gr علول}$

$x = 3200 \text{ gr}$

4/86

$$\frac{\text{FeCO}_3 \times \frac{9}{116} \times \frac{1,26}{116}}{116 \times 3} = \frac{63,2 \text{ gr KMnO}_4 \times \frac{29}{158} \times 4}{158 \times 4}$$

(87)

→ gr FeCO₃ = 58 gr

(88) واکنش پذیری کمتر است به جای Si در آنش را می بیند

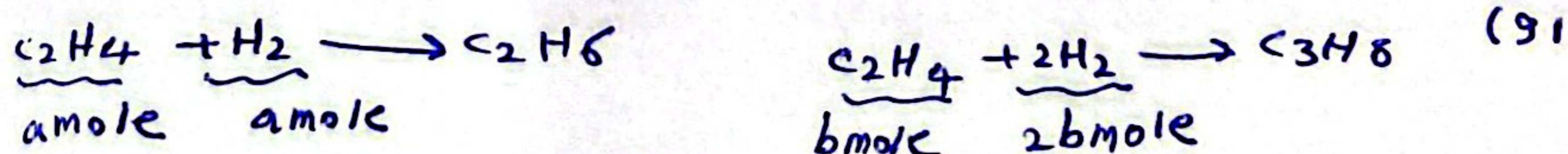
x: C_nH_{2n+2} → افتاد: 2n+2 - n = n+2 → $\frac{n+2}{2} = 3 \rightarrow n=4$ (89)

y: C_mH_{2m} $\frac{H}{C} = \frac{2m}{m} = 2$

(12n+2+2) - (12m+2m) = 30 → m=2

$\begin{array}{c} 1 \\ \text{mole C}_4\text{H}_{10} \end{array} \sim \begin{array}{c} 5 \times 18 \\ 90 \text{ gr H}_2\text{O} \end{array}$ $\frac{1/2}{x} = \frac{90}{180} \rightarrow x = 18 \text{ gr}$	$\begin{array}{c} 1 \\ \text{mole C}_2\text{H}_4 \end{array} \sim \begin{array}{c} 2 \times 18 \\ 36 \text{ gr H}_2\text{O} \end{array}$ $\frac{1/2}{x} = \frac{36}{72} \rightarrow x = 7,2 \text{ gr}$
اختلاف 10,8	

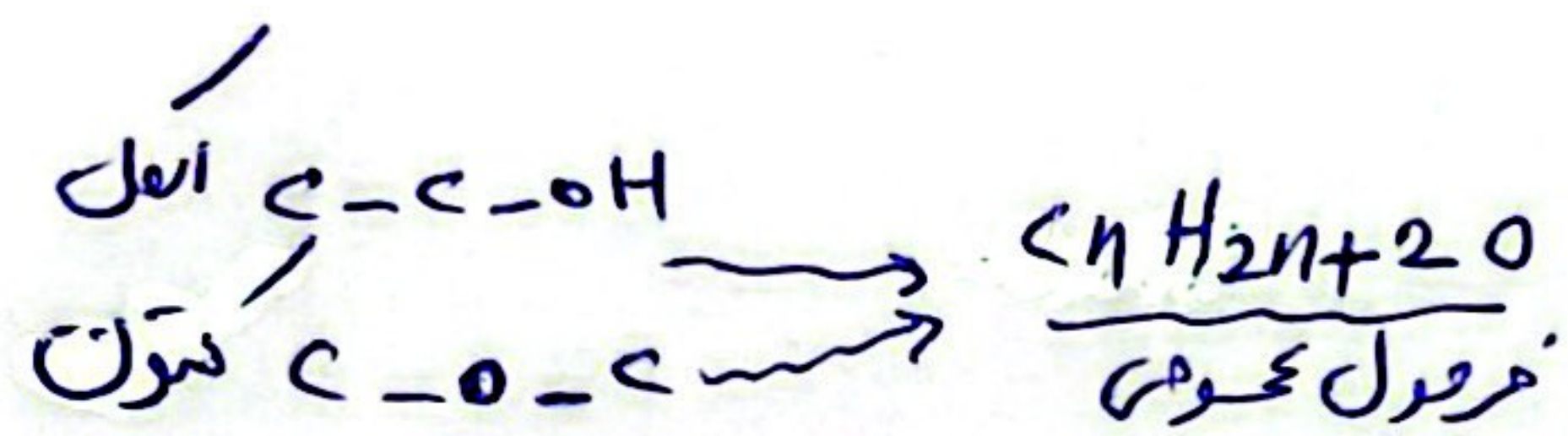
(90) الف خلط بوسن جبراً بهترین دارد (ب) صمغ (ج) صمغ (د) عسل



28a + 40b = 18 gr → a = 1/2 b = 1/1

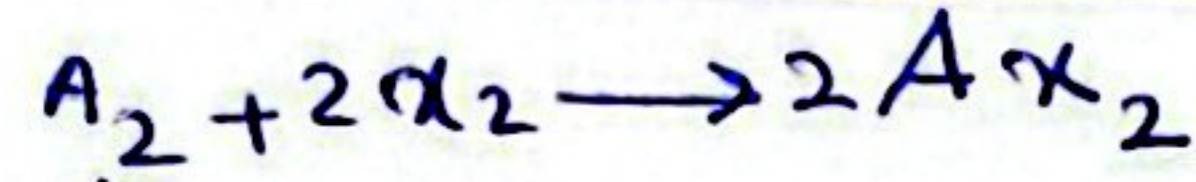
2a + 4b = 14 gr

a + b = 1,6 mole → x 22,4 = 35,84 لیتر



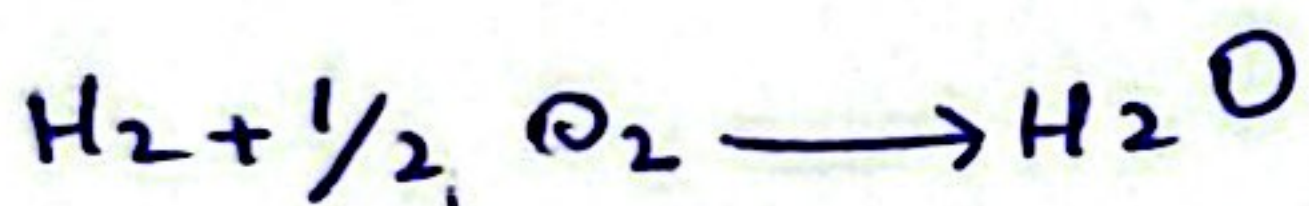
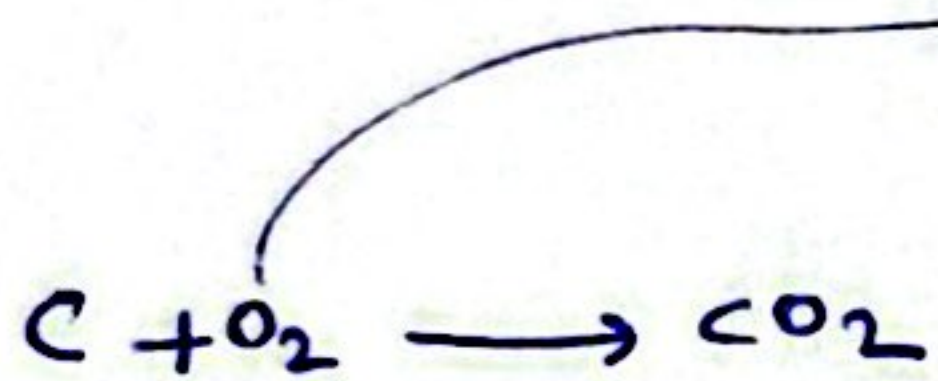
✓ 92

$$\frac{11,545}{x} = \frac{340}{1360} \rightarrow x = 46 \rightarrow \text{C}_2\text{H}_6\text{O}$$



✓ 93

$$\alpha_2 R = \frac{RA_2}{1} = \frac{1,5 \text{ mole}}{\frac{2 \text{ lit}}{10^3}} = 2,5 \times 10^{-3}$$



$$\frac{a \text{ mole}}{1} = \frac{?}{394} \rightarrow ? = 394a$$

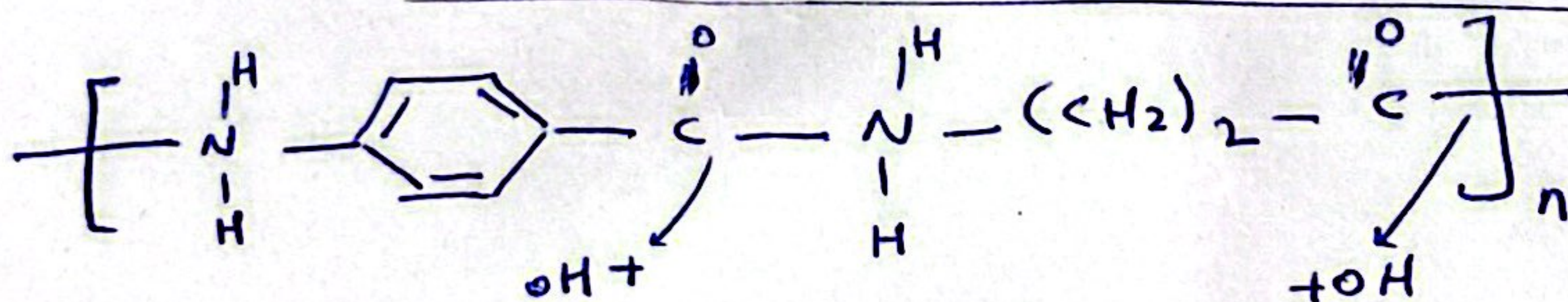
$$\frac{a \text{ mole}}{\frac{1}{2}} = \frac{?}{286} \rightarrow ? = 572a$$

$$394a + 572a = 193,2$$

$$a = 0,2 \text{ mole}$$

$$\begin{array}{l} \frac{x \cdot \text{grC}}{12} = \frac{0,2}{1} \rightarrow \text{grC} = 2,4 \\ \frac{y \cdot \text{grH}}{2} = \frac{0,2}{\frac{1}{2}} \rightarrow \text{grH} = 1,8 \end{array} \quad \left. \begin{array}{l} x+y \\ \text{grC} + \text{grH} \end{array} \right\} = 3,2 \text{ gr}$$

✓ 96

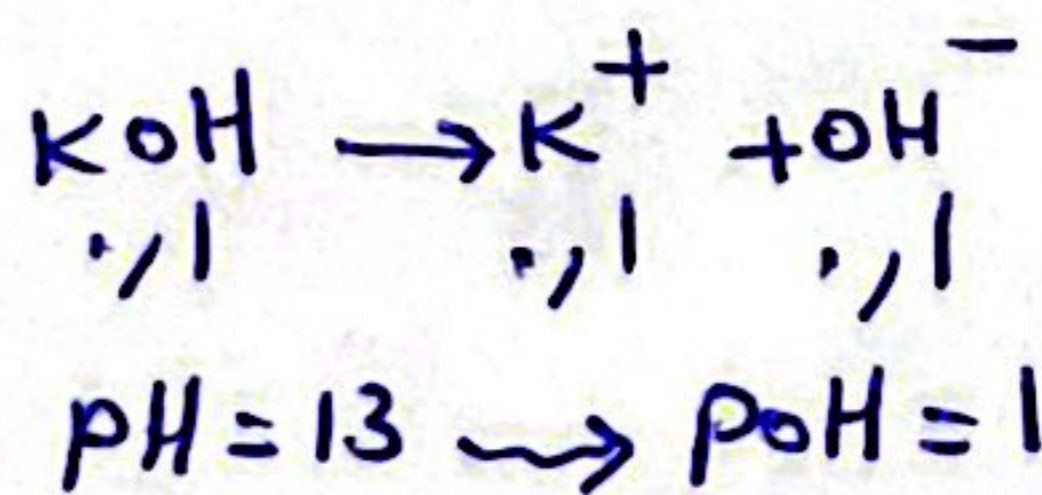


✓ 97

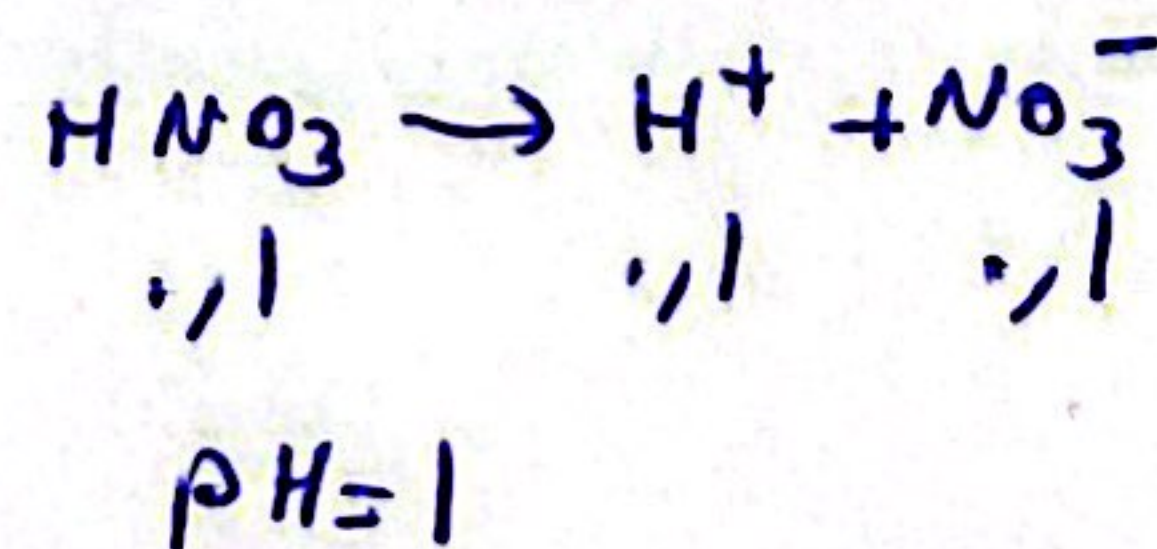
$$190 \times 1000 = 1,9 \times 10^5 \quad \text{جرم مولی}$$

$$48 \text{ gr} = \text{قوات جرم مولی}$$

✓ 98



$$\text{pH} = 13 \rightarrow \text{pOH} = 1$$



$$\text{pH} = 1$$

✓ 99

در تیرین 3 از 200 ml به 800 ml حجم می شود 1000 ml و برای رسیدن به خلقت $\frac{1}{5}$ (0.2 مولاری شود)

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$$M = \frac{10 \times a \times d}{40} \rightarrow 1,2$$

جرم مولی ← 40 غلظت مولار ←

2 (100)

$$\rightarrow \frac{10 \times 20 \times 1,2}{40} \times 10^{-3} = \frac{a \frac{\text{mole}}{\text{lit}} \times 2 \cancel{\text{lit}}}{1} \rightarrow a = \frac{1}{3}$$

$$pOH = -\log 3 \times 10^{-2} = 2 - \log 3 = 1,5 \rightarrow pH = 12,5$$

