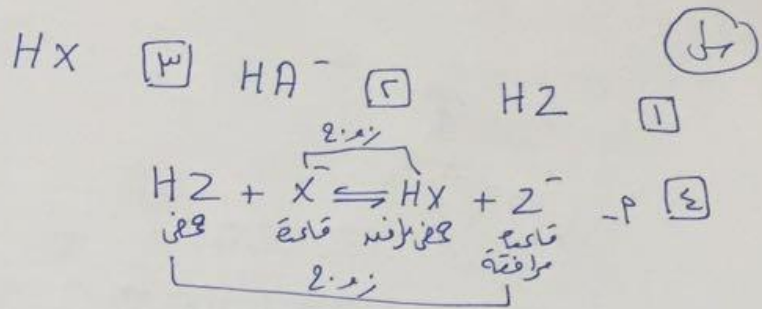
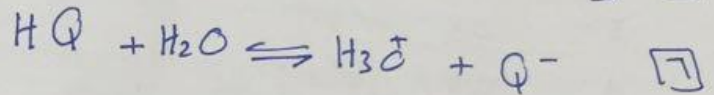


اجابات امتحان الكيمياء الازماني
المفرد المرسنة



ب. نحو التفاعلات ←

(5) تزداد



$$\frac{[Q^-] \cdot [H_3O^+]}{[HQ]} = K_a$$

$$\frac{10^{-x}}{1-x} = \frac{10^{-x}}{1-x} \leftarrow \frac{10^{-x}}{1-x} = 10^{-x}$$

$$1-x = [H_3O^+]$$

$$[H_3O^+]_{10^{-x}} = pH$$

$$10^{-x} =$$

$$x =$$

٤



HCO₃⁻: استقبال بروتون H⁺ من الماء

$$10^{-13} = PH^- = [H_2CO_3] \quad .U$$

$$10^{-14} \times 1 = \frac{10^{-14}}{10^{-13}} = [OH^-]$$

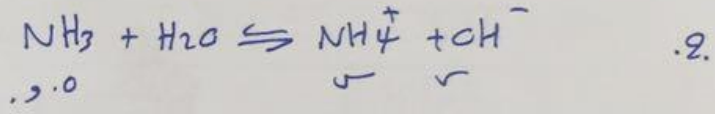
$$10^{-14} \times 1 = [OH^-] = [NaOH]$$

$$0.2 \times 2 = 0.4$$

$$10^{-14} \times 1 = NaOH$$

ملحوظة: المواد نقيحة معلومة التامة للبوليمر NaOH

الاستاذ:
م. ابو صيف
0798245930



$$10^{-7} \times 1 \leftarrow 10^{-4} \times 10^{-10} = 10^{-14} \leftarrow \frac{10^{-14}}{10^{-10}} = 10^{-4} \times C$$

$$10^{-14} \times 1 = [OH^-]$$

$$10^{-11} \times 1 = \frac{10^{-14} \times 1}{10^{-11} \times 1} = [H_2CO_3]$$

$$[H_2CO_3] = PH$$

$$10^{-11} \times 1 =$$

$$11 =$$

NH₃ .5

(3)

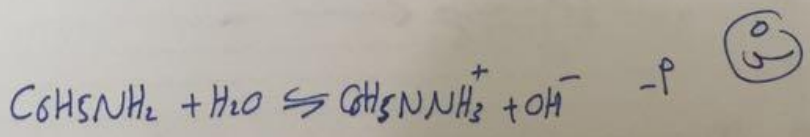
الاستاذ: د. خالد جابر
ابو صديق
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- 1- CH_3COOH
- 2- CH_3OCH_3
- 3- $\text{CH}_3\text{CH}=\text{CH}_2$
- 4- $\text{H}-\overset{\text{O}}{\parallel}-\text{CH}_3$
- 5- $\text{CH}_3-\overset{\text{OH}}{\text{C}}\text{HCH}_2\text{CH}_3$
- 6- $\text{CH}_3\text{CH}_2\text{NH}_3^+$
- 7- $\text{CH}_3-\overset{\text{OH}}{\text{C}}\text{HCH}_3$

- 1. $\text{CH}_3\text{CH}_3 + \text{Cl}_2 \xrightarrow{\text{ضوء}} \text{CH}_3\text{CH}_2\text{Cl}$
- 2. $\text{CH}_3\text{CH}_2\text{Cl} \xrightarrow{\text{OH}^-} \text{CH}_3\text{CH}_2\text{OH}$
- 3. $\text{CH}_3\text{CH}_2\text{OH} \xrightarrow{\text{K}_2\text{Cr}_2\text{O}_7} \text{CH}_3\overset{\text{O}}{\parallel}\text{CH}$
- 4. $\text{CH}_3\overset{\text{O}}{\parallel}\text{CH} \xrightarrow[\text{H}^+]{\text{K}_2\text{Cr}_2\text{O}_7} \text{CH}_3\overset{\text{O}}{\parallel}\text{COH}$
- 5. $\text{CH}_3\overset{\text{O}}{\parallel}\text{COH} \xrightarrow[\text{تحسين}]{\text{NH}_3, \text{H}^+} \text{CH}_3\overset{\text{O}}{\parallel}\text{CNH}_2 \quad \#$

-P (3)

(1) اميلون (2) غليسيرول (3) ايثانول (4) ايثان



- $\text{CH}_3\overset{\text{O}}{\parallel}\text{CH}_3$ (4) CH_3COOH (3) $\text{CH}_3\overset{\text{OH}}{\text{C}}\text{HCH}_3$ (1) -D
- $\text{CH}_3\text{CH}=\text{CH}_2$ (2) $\text{CH}_3\text{CH}_2\text{OH}$ (5)

مع امينات الكترول
للجمع