

corrigé epreuve physique chimie2017

exercice-1

chimie

1)- Détermine le nombre (n), Si ,m(g) =0,5g, $n = \frac{m}{M} \rightarrow n = \frac{0.5}{180} = 0.0027 \text{ mol}$

2- Si, v=10 mol-0,01 L, n=0,027 mol, $n = C \cdot v \rightarrow c = \frac{0.0027}{0.01}$, $c = 2.22 \text{ mol L}$

2)-1- mesure pH =5,5 pair, pH est neutre

2)-2-la nature de la solution est acide

2)-3- pH augmente, pH =7 solution neutre

Exercice-2 Physique

1)- la présentation du chemin :C.E : P-R = 0

$M = 200\text{g} = 0,2 \text{ kg}$; $P=R = m \cdot g = 0,2 \times 10 = 2\text{N}$

2) C.E , $P+T = 0 \rightarrow P - T = 0$, $P = T = 2\text{N}$

$T = K \cdot \Delta l \rightarrow \Delta l = \frac{T}{K} = \frac{2}{40} \rightarrow \Delta l = 0.05\text{m} = 0.5\text{cm}$

Ex-3 : $f = 0,5 \text{ mm} = 0,5\text{m}$

$C = \frac{1}{f} = \frac{1}{0.05} = 20 \text{ j} \rightarrow c = 20\text{j}$

$\text{Tag}(\alpha) = \frac{AB}{OA} = \frac{H}{D}$

$\text{Tag}(\alpha) = \frac{AB}{OA'} = \frac{AB}{OA} = \frac{h}{d}$

Alors: $\frac{H}{D} = \frac{h}{d} \rightarrow H \cdot d = D \cdot h$

$H = \frac{D \cdot h}{d} \rightarrow H = \frac{10 \times 1,5 \times 10^{-2}}{160 \times 10^{-3}} = 2.5 \text{ m}$

AB // AB'

$\frac{D}{d} = \frac{H}{h} \rightarrow H = \frac{D}{d} \cdot h$

