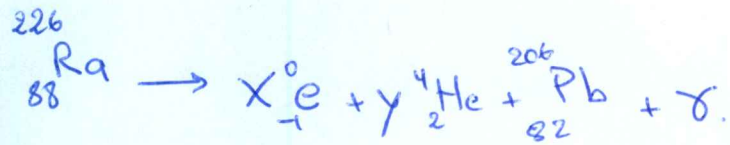



# التصحيح النموذجي للاختبار رقم 1

التصحيح الأول: حساب عدد النويات  $\alpha$  و  $\beta^-$  (07)

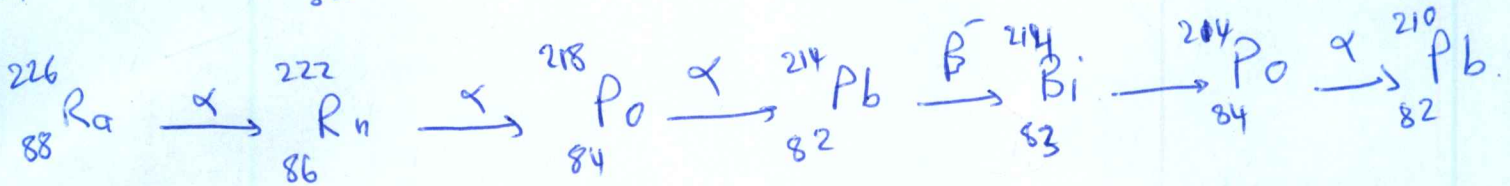
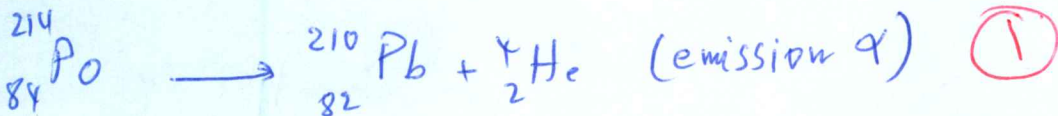
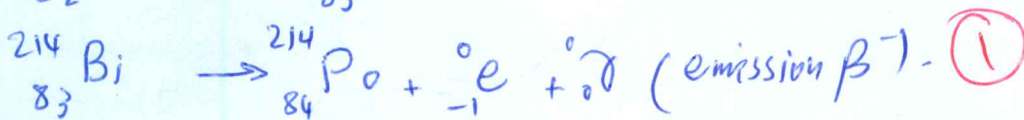
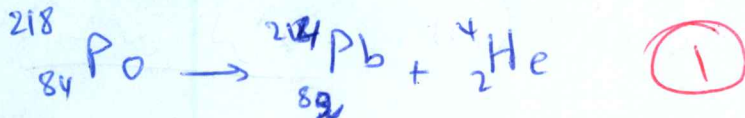
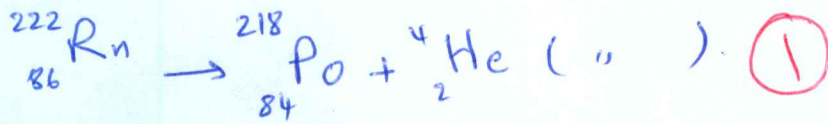
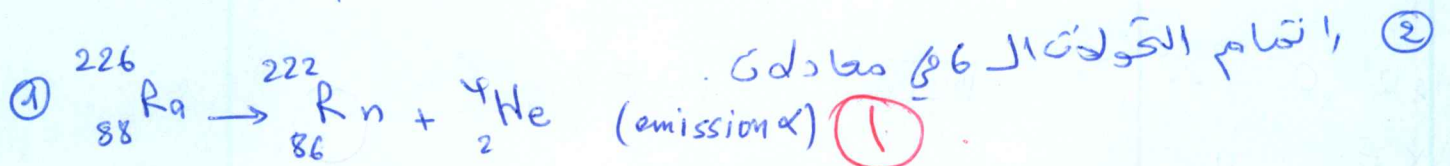


① حساب عدد النويات  $\alpha$  و  $\beta^-$  :  $\beta^-$  و  $\alpha$  

$$226 = x \cdot 0 + 4 \cdot y + 206 \quad y = 5$$

$$88 = x \cdot (-1) + y \cdot 2 + 82 \Rightarrow x = 4$$

$\Rightarrow 5 \alpha$  et  $4 \beta^-$

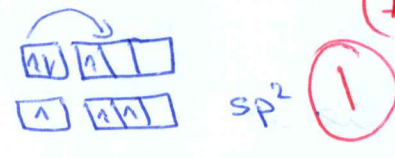


التصحيح الثاني: (7)

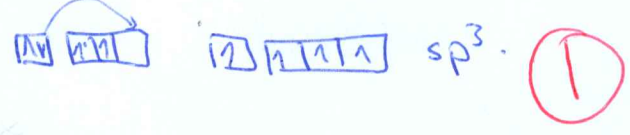
- ①  ${}_{17}\text{Cl}$ :  $[\text{Ne}] 3s^2 3p^5$   $\text{Cl}^-$  (1)
- ②  ${}_{11}\text{Na}$ :  $[\text{Ne}] 3s^1$   $\text{Na}^+$  (1)
- ③  ${}_{20}\text{Ca}$ :  $[\text{Ar}] 4s^2$   $\text{Ca}^+$  (1)
- ④  ${}_{13}\text{Al}$ :  $[\text{Ne}] 3s^2 3p^1$   $\text{Al}^{3+}$  (1)
- ⑤  ${}_{26}\text{Fe}$ :  $[\text{Ar}] 3d^6 4s^2$   $\text{Fe}^{2+}, \text{Fe}^{3+}$  (1,5)
- ⑥  ${}_{50}\text{Sn}$ :  $[\text{Kr}] 4d^{10} 5s^2 5p^2$   $\text{Sn}^{2+}, \text{Sn}^{4+}$  (1,5)

التحريث الثالث (3)

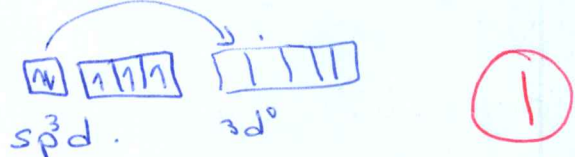
$AlCl_3$ .  $_{13}Al: 1s^2 2s^2 2p^6 3s^2 3p^1$   
 $AX_3$ . plane.



$CH_4$ .  $_6C: 1s^2 2s^2 2p^2$   
 $AX_4$  tétraèdre.



$PCl_5$ .  $_{15}P: 1s^2 2s^2 2p^6 3s^2 3p^3$   
 $AX_5$ . bypiramide trigonale  $sp^3d$ .



$H_2O$ .  $_8O: 1s^2 2s^2 2p^4$   
 $AX_2E_2$  plane en forme V.  
 liniaire coude



التحريث الرابع (4)

$CH_2=CH-CH=CH_2$ .  $sp^2$   $sp^2$   $sp^2$   $sp^2$   
 (1)

