## Answers to practice problems A in page 653

Homework - Giniral
Additional Practice Have students fill in the blanks in the following nuclear equations:

1. ${ }_{86}^{222} \mathrm{Rn} \longrightarrow{ }_{84}^{218} \mathrm{Po}+$ $\qquad$ Ans. ${ }_{2}^{4} \mathrm{He}$
2. ${ }_{37}^{87} \mathrm{Rb} \longrightarrow{ }_{38}^{87} \mathrm{Sr}+$ $\qquad$ Ans. ${ }_{-1}^{0} e$
3. ${ }_{79}^{188} \mathrm{Au} \rightarrow{ }_{78}^{188} \mathrm{Pt}+$ $\qquad$
Ans. $+{ }_{1}^{0} e$
4. ${ }_{18}^{37} \mathrm{Ar}+{ }_{-1}^{0} e \longrightarrow$ $\qquad$ Ans. ${ }_{17}^{37} \mathrm{Cl}$
5. ${ }_{13}^{28} \mathrm{Al} \longrightarrow$ $\qquad$ $+{ }_{-1}^{0} e$ Ans. ${ }_{14}^{28} \mathrm{Si}$
6. ${ }_{27}^{57} \mathrm{Co}+\longrightarrow \longrightarrow{ }_{26}^{57} \mathrm{Fe}$ Ans. ${ }_{-1}^{0} e$
7. ${ }_{95}^{243} \mathrm{Am} \longrightarrow$ $\qquad$ $+{ }_{2}^{4} \mathrm{He}$

$$
\text { Ans. }{ }_{93}^{239} \mathrm{~Np}
$$

8. ${ }_{56}^{125} \mathrm{Ba} \longrightarrow$ $\qquad$ $+{ }_{+1}^{0} e$

$$
\text { Ans. }{ }_{55}^{125} \mathrm{Cs}
$$

9. $\longrightarrow{ }_{28}^{61} \mathrm{Ni}+{ }_{+1}^{0}$ e Ans. ${ }_{29}^{61} \mathrm{Cu}$
10. $\quad{ }_{-}{ }_{-1}^{0} e \rightarrow{ }_{37}^{82} \mathrm{Rb}$ Ans. ${ }_{38}^{82} \mathrm{Sr}$
11. $\underset{\text { Ans. }{ }_{92}^{32 \mathrm{U}}}{\longrightarrow}{ }_{90}^{226} \mathrm{Th}+{ }_{2}^{4} \mathrm{He}$
12. $\longrightarrow{ }_{198}^{198} \mathrm{Hg}+{ }_{-1}^{0} e$ Ans. ${ }_{79}^{198} \mathrm{Au}$
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Answers to Practice
Problems A
13. ${ }_{82}{ }_{2}^{4} \mathrm{~Pb}$
14. ${ }_{-1}^{0} e$
15. ${ }_{101}^{256} \mathrm{Md}$
16. ${ }_{11}^{22} \mathrm{Na} \longrightarrow{ }_{10}^{22} \mathrm{Ne}+{ }_{+1}^{0} e$
