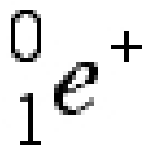
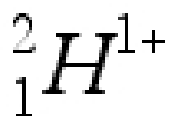


1 carbon-12 + ? -->nitrogen-14

A positron

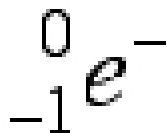


B deuteron

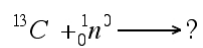


C alpha

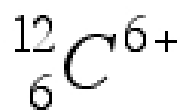
D electron



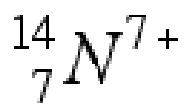
2 What is the product of this nuclear reaction?



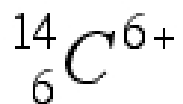
A carbon-12



B nitrogen-14



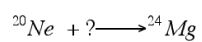
C carbon-14



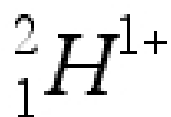
D oxygen-16



- 3 What is the other reactant in this nuclear reaction?

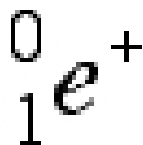


A deuteron

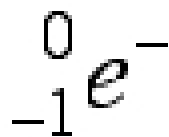


B alpha

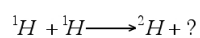
C positron



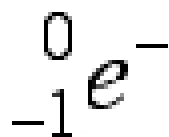
D electron



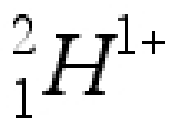
- 4 What is the other product in this nuclear reaction?



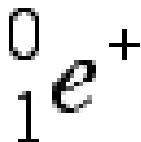
- A electron



- B deuteron



- C positron



- D alpha

- 5 U-238 undergoes alpha decay to yield one other product. What is that product?

- A U-237
- B Th-234
- C Np-238
- D None of the above.

- 6 Pu-240 is generated by the reaction of a deuterium atom (H-2) with another element; a beta particle is the other product. What is the reactant element?

- A Np-237
- B Pu-239
- C Pa-235
- D None of the above