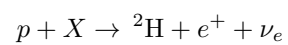
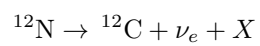
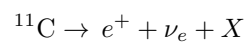
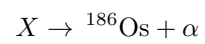
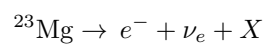


1. Iron-55 decays by electron capture. What are its end products?

2. For each of the following reactions, identify the particle “X”:



3. Calculate the kinetic energy of an alpha particle from the decay of ^{239}Pu .

4. Why does the proton cycle dominates over the carbon cycle at lower temperature?