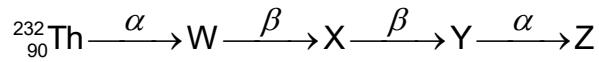


- 30** The following represents a sequence of radioactive decays involving two  $\alpha$ -particles and two  $\beta$ -particles.



What is the nuclide  $Z$ ?

**A**  $^{224}_{\text{88}}\text{Ra}$

**B**  $^{228}_{\text{88}}\text{Ra}$

**C**  $^{228}_{\text{89}}\text{Ac}$

**D**  $^{228}_{\text{90}}\text{Th}$

**END OF PAPER**