

**38** Which row describes the relative ionizing power and the relative penetration power per unit length in air of  $\alpha$ -particles and  $\gamma$ -rays?

	$\alpha$ -particles	$\gamma$ -rays
<b>A</b>	least ionizing	least penetrating
<b>B</b>	least penetrating	most ionizing
<b>C</b>	most ionizing	most penetrating
<b>D</b>	most penetrating	least ionizing

**39** A nucleus of sodium  $^{21}_{11}\text{Na}$  decays to form a new nucleus containing 10 protons