

**23** The amplitude of a wave is  $A$  and its intensity is  $I$ .

Which amplitude is necessary for the intensity to be doubled to  $2I$ ?

**A**  $A^2$

**B**  $\sqrt{A}$

**C**  $\sqrt{2} A$

**D**  $2A$

**24** Which value is a possible wavelength for radiation in the ultra-violet region of the electromagnetic