

1 Which is a pair of SI base units?

<b>A</b>	ampere	joule
<b>B</b>	coulomb	second
<b>C</b>	kilogram	kelvin
<b>D</b>	metre	newton

2 What is the ratio  $\frac{1\mu\text{m}}{1\text{Gm}}$ ?

**A**  $10^{-3}$

**B**  $10^{-9}$

**C**  $10^{-12}$

**D**  $10^{-15}$

3 Which formula could be correct for the speed  $v$  of ocean waves in terms of the density  $\rho$  of sea-water, the acceleration of free fall  $g$ , the depth  $h$  of the ocean and the wavelength  $\lambda$ ?

**A**  $v = \sqrt{g\lambda}$

**B**  $v = \sqrt{\frac{g}{h}}$

**C**  $v = \sqrt{\rho gh}$

**D**  $v = \sqrt{\frac{g}{\rho}}$