1 Which term represents a physical quantity?

A metre

B percentage uncertainty

C quark flavour

D spring constant

2 Which two units are identical when expressed in terms of SI base units?

A $\mathrm{J\,C^{-1}}$ and $\mathrm{kg\,m^2\,A^{-1}\,s^{-2}}$

B $\mathrm{J\,s}$ and $\mathrm{kg\,m^2\,s^{-1}}$

C $\mathrm{N\,m}$ and $\mathrm{kg\,m^3\,s^{-2}}$

D $\mathrm{N\,s}$ and $\mathrm{kg\,m\,s^{-3}}$

3 A value for the acceleration of free fall on Earth is given as $(10 \pm 2)\,\mathrm{m\,s^{-2}}$.

Which statement is correct?

A The value is accurate but not precise.

B The value is both precise and accurate.

C The value is neither precise nor accurate.

D The value is precise but not accurate.