

30 A proton and an alpha particle (${}^4_2\text{He}$ Helium nucleus) have the same de Broglie wavelength.

The ratio $\frac{\text{speed of proton}}{\text{speed of alpha particle}}$ is

- A** $\frac{1}{4}$ **B** $\frac{1}{2}$ **C** 2 **D** 4

End of Paper