

SECTION B

Answer ALL questions in the spaces provided.

- 11** A particle travelling at a speed of $9.89 \times 10^5 \text{ ms}^{-1}$ has a de Broglie wavelength of $7.37 \times 10^{-10} \text{ m}$.

Deduce whether this particle has a mass equal to the electron mass.

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(Total for Question 11 = 3 marks)