

Answer all the questions in the spaces provided.

- 1 (a) Distinguish between vector and scalar quantities.

Scalar quantities have magnitude only, however, vector quantities have both magnitude and direction. (2)

- (b) The electric field strength  $E$  at a distance  $x$  from an isolated point charge  $Q$  is given by the equation

$$E = \frac{Q}{x^2 b}$$

where  $b$  is a constant.

- (i) Use the definition of electric field strength to show that  $E$  has SI base units of  $\text{kg m A}^{-1} \text{s}^{-3}$ .

$$E = \frac{V}{d} \rightarrow$$

$$E = \frac{V}{Q} \rightarrow \frac{\text{kg m s}^{-2}}{\text{A s}} \rightarrow \text{kg m A}^{-1} \text{s}^{-3}$$

$$R = V$$

$$R = \frac{V}{I}$$

$$I = \frac{Q}{t}$$

(2)

- (ii) Use the units for  $E$  given in (b)(i) to determine the SI base units of  $b$ .

$$b = \frac{Q}{E x^2} \rightarrow \frac{\text{A s}}{\text{kg m A}^{-1} \text{s}^{-3} \times \text{m}^2}$$

$$\frac{\text{A s}}{\text{kg m}^3 \text{A}^{-1} \text{s}^{-3}} \rightarrow \text{kg}^{-1} \text{m}^{-3} \text{A}^2 \text{s}^4$$

SI base units of  $b$   $\text{kg}^{-1} \text{m}^{-3} \text{A}^2 \text{s}^4$  (2)

[Total: 6]

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