

**D4.1.** Given the electric field  $\mathbf{E} = \frac{1}{z^2}(8xyz\mathbf{a}_x + 4x^2z\mathbf{a}_y - 4x^2y\mathbf{a}_z)$  V/m, find the differential amount of work done in moving a 6-nC charge a distance of 2  $\mu\text{m}$ , starting at  $P(2, -2, 3)$  and proceeding in the direction  $\mathbf{a}_L = (a) -\frac{2}{3}\mathbf{a}_x + \frac{2}{3}\mathbf{a}_y + \frac{2}{3}\mathbf{a}_z$ ; (b)  $\frac{2}{3}\mathbf{a}_x - \frac{2}{3}\mathbf{a}_y - \frac{2}{3}\mathbf{a}_z$ ; (c)  $\frac{2}{3}\mathbf{a}_x + \frac{2}{3}\mathbf{a}_y$ .

**Ans.** -149.3 J; 149.3 J; 0

① Work done in moving a charge  $Q$  in an external electric field is given by,

$$(work \rightarrow F = -q\mathbf{E} \cdot \hat{\mathbf{a}}_L)$$

$$\therefore \text{Work done (dW)} = -q\mathbf{E} \cdot \hat{\mathbf{a}}_L \, dL$$

$$\text{or } \boxed{dW = -q\mathbf{E} \cdot d\mathbf{L}}$$

$$\text{or } W = -q \int_{\text{initial}}^{\text{final}} \mathbf{E} \cdot d\mathbf{L}$$

Here,  $\mathbf{E} = \frac{1}{z^2} [8xyz \hat{\mathbf{a}}_x + 4x^2z \hat{\mathbf{a}}_y - 4x^2y \hat{\mathbf{a}}_z]$  V/m

$$Q = 6 \text{ nC} = 6 \times 10^{-9} \text{ C}$$

$$dL = 2 \mu\text{m} = 2 \times 10^{-6} \text{ m}$$

②  $\mathbf{E}$  at  $(2, -2, 3)$

$$\therefore \mathbf{E} = \frac{1}{(3)^2} \left[ (8 \times 2 \times -2 \times 3) \hat{\mathbf{a}}_x + (4 \times 2^2 \times 3) \hat{\mathbf{a}}_y - (4 \times 2^2 \times -2) \hat{\mathbf{a}}_z \right]$$

$$\mathbf{E} = \frac{1}{9} [-32 \hat{\mathbf{a}}_x + 48 \hat{\mathbf{a}}_y + 32 \hat{\mathbf{a}}_z]$$

$$(a) \hat{\mathbf{a}}_L = -\frac{2}{3} \hat{\mathbf{a}}_x + \frac{2}{3} \hat{\mathbf{a}}_y + \frac{2}{3} \hat{\mathbf{a}}_z$$

$$\text{Work done (W)} = -q \mathbf{E} \cdot d\mathbf{L}$$

$$= -q \mathbf{E} \cdot dL \cdot \hat{\mathbf{a}}_L$$

$$\therefore W = -6 \times 10^{-9} \times \frac{1}{9} [-32 \hat{\mathbf{a}}_x + 48 \hat{\mathbf{a}}_y + 32 \hat{\mathbf{a}}_z] \cdot \left[ \frac{2}{3} \hat{\mathbf{a}}_x + \frac{2}{3} \hat{\mathbf{a}}_y + \frac{2}{3} \hat{\mathbf{a}}_z \right] \times 2 \times 10^{-6}$$

$$\left[ \begin{array}{l} q = 6 \times 10^{-9} \\ \mathbf{E} = \frac{1}{9} [-32 \hat{\mathbf{a}}_x + 48 \hat{\mathbf{a}}_y + 32 \hat{\mathbf{a}}_z] \\ dL = 2 \times 10^{-6} \text{ m} \\ \hat{\mathbf{a}}_L = -\frac{2}{3} \hat{\mathbf{a}}_x + \frac{2}{3} \hat{\mathbf{a}}_y + \frac{2}{3} \hat{\mathbf{a}}_z \end{array} \right]$$

$$\therefore W = -\frac{6 \times 10^{-9} \times 2 \times 10^{-6}}{9} \left[ -32 \times \frac{2}{3} + 48 \times \frac{2}{3} + 32 \times \frac{2}{3} \right]$$

$$= -\frac{12 \times 10^{-15}}{9} \left[ \frac{64}{3} + \frac{192}{3} + \frac{64}{3} \right]$$

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