

Physics

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(Chapter – 2) (Electrostatic Potential and Capacitance)

(Class - XII)

$$\begin{aligned} E_2 = \text{Electric field due to } q_2 = \text{Electric field due to } q_1 &= \frac{q_2}{4\pi\epsilon_0\left(\frac{d}{2}\right)^2} - \frac{q_1}{4\pi\epsilon_0\left(\frac{d}{2}\right)^2} \\ &= \frac{9 \times 10^9}{\left(\frac{0.30}{2}\right)^2} \times 10^{-6} \times (2.5 - 1.5) \\ &= 4 \times 10^5 \text{ V m}^{-1} \end{aligned}$$

Therefore, the potential at mid-point is $2.4 \times 10^5 \text{ V}$ and the electric field at mid-point is $4 \times 10^5 \text{ V m}^{-1}$. The field is directed from the larger charge to the smaller charge.

(b) Consider a point Z such that normal distance OZ = 10 cm = 0.1 m, as shown in the following figure.

V_2 and E_2 are the electric potential and electric field respectively at Z.

It can be observed from the figure that distance,

$$BZ = AZ = \sqrt{(0.1)^2 + (0.15)^2} = 0.18 \text{ m}$$

$V_2 =$ Electric potential due to A + Electric Potential due to B

$$\begin{aligned} &= \frac{q_1}{4\pi\epsilon_0(AZ)} + \frac{q_2}{4\pi\epsilon_0(BZ)} \\ &= \frac{9 \times 10^9 \times 10^{-6}}{0.18} (1.5 + 2.5) \\ &= 2 \times 10^5 \text{ V} \end{aligned}$$

Electric field due to q at Z,

$$\begin{aligned} E_A &= \frac{q_1}{4\pi\epsilon_0(AZ)^2} \\ &= \frac{9 \times 10^9 \times 1.5 \times 10^{-6}}{(0.18)^2} \\ &= 0.416 \times 10^6 \text{ V/m} \end{aligned}$$

Electric field due to q_2 at Z,

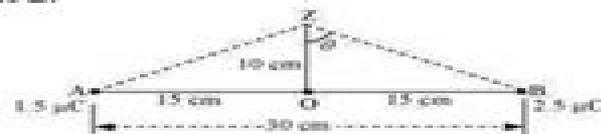
$$\begin{aligned} E_B &= \frac{q_2}{4\pi\epsilon_0(BZ)^2} \\ &= \frac{9 \times 10^9 \times 2.5 \times 10^{-6}}{(0.18)^2} \\ &= 0.69 \times 10^6 \text{ V m}^{-1} \end{aligned}$$

The resultant field intensity at Z,

$$E = \sqrt{E_A^2 + E_B^2 + 2E_A E_B \cos 2\theta}$$

Where, 2θ is the angle, $\angle AZB$

From the figure, we obtain



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