



Q 2.1) Two charges $5 \times 10^{-8} \text{ C}$ and $-3 \times 10^{-8} \text{ C}$ are located 16 cm apart from each other. At what point (s) on the line joining the two charges is the electric potential zero? Take the potential at infinity to be zero.

Solution:

Given,

$$q_1 = 5 \times 10^{-8} \text{ C}$$

$$q_2 = -3 \times 10^{-8} \text{ C}$$

The two charges are at a distance, $d = 16\text{cm} = 0.16\text{m}$ from each other.

Let us consider a point "P" over the line joining charges q_1 and q_2 .

Let the distance of the considered point P from q_1 be 'r'

Let us consider point P to have zero electric potential (V)...

The electric potential at point P is the summation of potentials due to charges q_1 and q_2 .

$$\text{Therefore, } V = \frac{1}{4\pi\epsilon_0} \cdot \frac{q_1}{r} + \frac{1}{4\pi\epsilon_0} \cdot \frac{q_2}{d-r} \dots\dots\dots(1)$$

Here,

ϵ_0 = permittivity of free space.

Putting $V = 0$, in eqn. (1), we get,

$$0 = \frac{1}{4\pi\epsilon_0} \cdot \frac{q_1}{r} + \frac{1}{4\pi\epsilon_0} \cdot \frac{q_2}{d-r}$$

$$\frac{1}{4\pi\epsilon_0} \cdot \frac{q_1}{r} = - \frac{1}{4\pi\epsilon_0} \cdot \frac{q_2}{d-r}$$

$$\frac{q_1}{r} = - \frac{q_2}{d-r}$$

$$\frac{5 \times 10^{-8}}{r} = - \frac{(-3 \times 10^{-8})}{0.16-r}$$

$$5(0.16 - r) = 3r$$

$$0.8 = 8r$$

$$r = 0.1\text{m} = 10 \text{ cm.}$$

Therefore, at a distance of 10 cm from the positive charge, the potential is zero between the two charges.

Let us assume a point P at a distance 's' from the negative charge be outside the system, having potential zero.

So, for the above condition, the potential is given by –

Chaper 35 Physics Answers

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