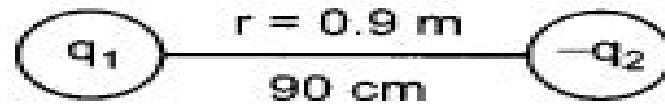


$$F = \frac{1}{4\pi\epsilon_0} \frac{q_1 q_2}{r^2} \quad \dots(1)$$



when they are placed in contact then the charge on each

$$q'_1 = \frac{q_1 + q_2}{2} \quad \text{and} \quad q'_2 = \frac{q_1 + q_2}{2}$$

$$\therefore F = \frac{\left(\frac{q_1 + q_2}{2} \right)^2}{4\pi\epsilon_0 r^2}$$

$$\therefore \left(\frac{q_1 + q_2}{2} \right)^2 = \frac{Fr^2}{\frac{1}{4\pi\epsilon_0}} = \frac{0.025 \times 0.9 \times 0.9}{9 \times 10^9}$$

$$(q_1 + q_2)^2 = \frac{4 \times 0.025 \times 0.9 \times 0.9}{9 \times 10^9}$$

$$(q_1 + q_2)^2 = 9 \times 10^{-12}$$

$$q_1 + q_2 = 3 \times 10^{-6} = 3 \times 10^{-6} \text{ C} = 3 \mu\text{C}$$

Both are equal after contact

$$\therefore \frac{q_1 + q_2}{2} = 1.5 \mu\text{C}$$

Class 12 Rbse Physics Guide

Patrick Vollmar



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