

Electric charges and Fields

Class-12 Electric charges and Fields

Practice Question & worksheet for chapter 1

1. A force is acting on two charges placed in dry air. If a metallic medium is added between the charges, then the new force will

- (a) be infinite
- (b) be zero.
- (c) remain same.
- (d) become negative.

Ans.

(b)

$$F = \frac{q_1 q_2}{4\pi\epsilon_0 r^2} \quad [\text{Coulomb's law}]$$

In case of metallic medium,

$$F' = \frac{q_1 q_2}{4\pi\epsilon r^2} \\ = \frac{q_1 q_2}{4\pi\epsilon_0 \epsilon_r r^2} \quad [\epsilon = \epsilon_0 \epsilon_r]$$

For metals, $\epsilon_r = \infty$

$$\therefore F' = 0$$

2. The charge required to electrify a sphere of radius 25 cm to get a surface charge density of $\frac{3}{\pi} \text{ cm}^{-2}$, is

- (a) 0.75 C.
- (b) 1.0 C.
- (c) 1.25 C.
- (d) 1.75 C.

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