

PHYSICS

UNIT 13: ELECTROSTATICS

Emalah Foundation School & College

Conceptual Questions

13.1. An electrified rod attracts pieces of paper. After a while these pieces fly away! Why?

Suppose a glass rod is rubbed with silk, it becomes positively charged (an electrified rod). When this glass rod is brought close to the pieces of paper, by electrostatic induction, a negative charge appears on pieces of paper due to which these pieces of paper attracted towards the rod. But when these pieces of paper touch the charged rod, some of electrons from the pieces of paper are transferred to the glass rod and then pieces of paper also become positively charged, due to which there will be the force of repulsion between rod and pieces of paper, hence the pieces of paper fly away from the rod.

13.2.- How much negative charge has been removed from a positively charged electroscope if it has a charge of $7.5 \times 10^{-13} \text{ C}$?

$7.5 \times 10^{-13} \text{ C}$ of negative charge has been removed from an electroscope to produce a positive charge of $7.5 \times 10^{-13} \text{ C}$ on the electroscope.

13.3. In what direction will a positively charged particle move in an electric field?

In an electric field positively charged particle will move from a point of higher potential to a point of lower potential i.e., the positively charged particle will move in the direction of electric field.

13.4. Does each capacitor carry equal charge in series combination? Explain.

Yes, each capacitor carries equal charge in series combination. When capacitors are connected in series, the same amount of charge is deposited on each capacitor. This is because the charge on one capacitor is equal to the charge on the other capacitor.

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Conceptual Physics Electrostatics Questions

Ying-Ying Zheng



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