

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 flows through each capacitor. This is because the capacitors are connected in a single loop, and the charge that flows out of one capacitor must flow into the next capacitor.

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In a series combination of capacitors, the total capacitance is less than the capacitance of any individual capacitor. This is because the capacitors are connected in a single loop, and the charge that flows out of one capacitor must flow into the next capacitor. The total capacitance is the reciprocal of the sum of the reciprocals of the individual capacitances.

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Electrostatic Conceptual Questions

Disha Experts

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Table of Contents Electrostatic Conceptual Questions

1. Understanding the eBook Electrostatic Conceptual Questions
 - The Rise of Digital Reading Electrostatic Conceptual Questions
 - Advantages of eBooks Over Traditional Books
2. Identifying Electrostatic Conceptual Questions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Electrostatic Conceptual Questions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electrostatic Conceptual Questions
 - Personalized Recommendations
 - Electrostatic Conceptual Questions User Reviews and Ratings
 - Electrostatic Conceptual Questions and Bestseller Lists
5. Accessing Electrostatic Conceptual Questions Free and Paid eBooks

- Electrostatic Conceptual Questions Public Domain eBooks
- Electrostatic Conceptual Questions eBook Subscription Services
- Electrostatic Conceptual Questions Budget-Friendly Options
- 6. Navigating Electrostatic Conceptual Questions eBook Formats
 - ePub, PDF, MOBI, and More
 - Electrostatic Conceptual Questions Compatibility with Devices
 - Electrostatic Conceptual Questions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electrostatic Conceptual Questions
 - Highlighting and Note-Taking Electrostatic Conceptual Questions
 - Interactive Elements Electrostatic Conceptual Questions
- 8. Staying Engaged with Electrostatic Conceptual Questions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electrostatic Conceptual Questions
- 9. Balancing eBooks and Physical Books Electrostatic Conceptual Questions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electrostatic Conceptual Questions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Electrostatic Conceptual Questions
 - Setting Reading Goals Electrostatic Conceptual Questions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Electrostatic Conceptual Questions
 - Fact-Checking eBook Content of Electrostatic Conceptual Questions
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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