

ANSWER KEY

Unit 7 Review – Electrostatic Charges, Forces, and Fields

1. When an electron is added to a neutral atom, the atom becomes

a. a negative ion
 b. more massive
 c. a positive ion
 d. heavier

2. A balloon is rubbed with a piece of fur. During the process, the balloon acquires a negative charge and the fur

a. acquires a positive charge
 b. could either be positively charged or negatively charged, depending on how hard the balloon was rubbed
 c. remains neutral
 d. acquires a negative charge

3. Two charged objects attract each other with a certain force. If the charges on both objects are halved with no change in the distance between them, the force

a. is reduced by half
 b. increases, but we can't say how much without knowing the distance between them
 c. becomes zero
 d. doubles

a. is reduced by one fourth

4. Sphere X carries a net charge and sphere Y is neutral. They are placed near each other on an insulated table. Which statement best describes the electrostatic force between them?

a. There is no force between them since one is neutral.
 b. The force is attractive if X is charged positively and repulsive if X is charged negatively.
 c. There is a force of repulsion between them.

d. There is a force of attraction between them.



5. A piece of plastic has a net charge of $-14.00 \mu\text{C}$. How many more electrons than protons does this piece of plastic have? (Sketch not required)

$$\frac{14.00 \times 10^{-6}}{1.602 \times 10^{-19} \text{C}} \left(\frac{1 e^-}{1.602 \times 10^{-19} \text{C}} \right) = 8.739 \times 10^{13} \text{ electrons}$$

6. There is a $+3.0 \mu\text{C}$ charge at each of 3 corners of a square (each side $40. \text{ mm}$ long). What is the force on $+6.0 \mu\text{C}$ placed at the center of the square.

$$F = k \frac{q_1 q_2}{r^2} = 9 \times 10^9 \left(\frac{(3.0 \times 10^{-6})(6.0 \times 10^{-6})}{(28.28 \times 10^{-3} \text{ m})^2} \right) = 203 \text{ N} = 2.0 \times 10^2 \text{ N}$$

$$\theta = 45^\circ \text{ N of E, away from } +3 \mu\text{C charge}$$



Helpful Hints

$$F_e = \frac{kq_1q_2}{r^2}$$

$$F_e = EQ$$

$$E = k \frac{Q}{r^2}$$

$$E = \frac{V}{d}$$

$$k = 9.00 \times 10^9$$

$$\text{Nm}^2/\text{C}^2$$

$$m_e = 9.11 \times 10^{-31} \text{ kg}$$

$$m_p = 1.67 \times 10^{-27} \text{ kg}$$

$$e = -1.60 \times 10^{-19} \text{ C}$$

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Ensheng Dong



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Table of Contents Static Electricity Answer Key

1. Understanding the eBook Static Electricity Answer Key
 - The Rise of Digital Reading Static Electricity Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Static Electricity Answer Key
 - 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 Static Electricity Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Static Electricity Answer Key
 - Personalized Recommendations
 - Static Electricity Answer Key User Reviews and Ratings
 - Static Electricity Answer Key and Bestseller Lists
5. Accessing Static Electricity Answer Key Free and Paid eBooks
 - Static Electricity Answer Key Public Domain eBooks
 - Static Electricity Answer Key eBook Subscription Services
 - Static Electricity Answer Key Budget-Friendly Options

6. Navigating Static Electricity Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Static Electricity Answer Key Compatibility with Devices
 - Static Electricity Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Static Electricity Answer Key
 - Highlighting and Note-Taking Static Electricity Answer Key
 - Interactive Elements Static Electricity Answer Key
8. Staying Engaged with Static Electricity Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Static Electricity Answer Key
9. Balancing eBooks and Physical Books Static Electricity Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Static Electricity Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Static Electricity Answer Key
 - Setting Reading Goals Static Electricity Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Static Electricity Answer Key
 - Fact-Checking eBook Content of Static Electricity Answer Key
 - 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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