# 1 Electrostatics

#### Practice 1.1 (p.20)

- I D
- 2 A

Negative charges move from the earth to the metal sphere. In this process, sparks may not be produced.

- 3 B
- 4 C

Electrons move towards side X. Protons cannot move freely in a metal.

5 C

As electrons leave the metal, the metal becomes positively charged.

6 B

R must carry negative charge, so C and D are not possible. When Q touches P, it carries a charge of magnitude less than  $6 \times 10^{-9}$  C, When it touches R, R shares only part of this charge. Therefore A is not possible.

7 A

A charge placed between X and Y would experience a force in the opposite direction as in other positions on ST.

... (2) is incorrect.

The electric field at the mid-point of XY is non-zero, so a charge placed at that point experiences an electrostatic force.

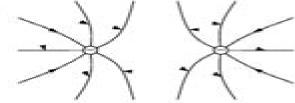
... (3) is incorrect.

- 8 (a) Incorrect
  - (b) Correct
  - (c) Correct
  - (d) Correct

9 (m)



(b):



- 10 When he combs his hair, the comb and his hair are charged by friction and carry opposite charges. Thus, they attract each other.
- 11 When moving on a dry day, the body is easily charged by friction. The body is earthed when touching the door handle, and the transfer of charges gives an electric shock.
- 12 (a) The metal rod is earthed by the hand. Whenever the rod is charged, the charges are immediately shared with the earth via the human body.
  - (b) Hold the rod with an insulator and rub it with a piece of cloth.
- 13 (a) They repel each other.
  - (b) B is earthed through the metal thread. A negative charge is induced on B by A. As the spheres carry opposite charges, they attract each other.

### Practice 1.2 (p.34)

- 1 C
- 2 C

By W = Fs, the field applies a force on the electron.

... B is incorrect.

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SJ Ball

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#### **Table of Contents Cstephenmurray Preap Electrostatics 1 Answers Free Ebook**

- 1. Understanding the eBook Cstephenmurray Preap Electrostatics 1 Answers Free Ebook
  - The Rise of Digital Reading Cstephenmurray Preap Electrostatics 1 Answers Free Ebook
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Cstephenmurray Preap Electrostatics 1 Answers Free Ebook
  - 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 Cstephenmurray Preap Electrostatics 1 Answers Free Ebook
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Cstephenmurray Preap Electrostatics 1 Answers Free Ebook
  - Personalized Recommendations
  - Cstephenmurray Preap Electrostatics 1 Answers Free Ebook User Reviews and Ratings
  - Cstephenmurray Preap Electrostatics 1 Answers Free Ebook and Bestseller Lists
- 5. Accessing Cstephenmurray Preap Electrostatics 1 Answers Free Ebook Free and Paid eBooks
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  - Participating in Virtual Book Clubs
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  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Cstephenmurray Preap Electrostatics 1 Answers Free Ebook
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  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
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  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Cstephenmurray Preap Electrostatics 1 Answers Free Ebook
  - Fact-Checking eBook Content of Cstephenmurray Preap Electrostatics 1 Answers Free Ebook
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements

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