

Chapter 32 Electrostatics

Exercises

32.1 Electrical Forces and Charges (pages 645-646)

1. Circle the letter beside the correct comparison of the strengths of the gravitational force and the electrical force.
 - a. The gravitational force is slightly stronger than the electrical force.
 - b. The electrical force is slightly stronger than the gravitational force.
 - c. The gravitational force is much stronger than the electrical force.
 - ☒ d. The electrical force is much stronger than the gravitational force.

2. Why don't you feel the electrical forces that act on you all the time?

So many around the cancel out

3. Describe the simple model of the atom proposed in the early 1900s by Rutherford and Bohr.

planetary

4. Charge is the fundamental electrical property to which the mutual attractions or repulsions between electrons or protons is attributed.

5. By convention, what is the charge of the following?

- a. electrons -
- b. protons +
- c. neutrons 0

6. Is the following sentence true or false? The mass of a proton is 2000 times greater than the mass of an electron. True

7. Circle the letter beside the correct comparison of the magnitudes of the charges of a proton and an electron.

- a. The magnitude of the proton's charge is slightly greater.
- b. The magnitude of the electron's charge is slightly greater.
- c. The magnitudes of a proton's charge and an electron's charge are always equal, but they vary for different atoms.
- ☒ d. The magnitudes of a proton's charge and an electron's charge are always equal and never change.

8. Like charges repel and opposite charges attract

Conceptual Physics 32 Electrostatics Exercises Answers

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