

# 22 Electrostatics

## Answers and Solutions for Chapter 22

### Reading Check Questions

1. Electrostatics is the term for electricity at rest.
2. Electrical forces cancel out, leaving weaker gravity predominant.
3. The nucleus and its protons are positively charged; electrons are negatively charged.
4. The charge of one electron is identical to the charge on all electrons, and is equal and opposite for protons.
5. Normally, the net charge is zero.
6. A positive ion is an atom with one or more fewer electrons than protons. A negative ion is an atom with one or more extra electrons.
7. Conservation of charge means charge cannot be created or destroyed, but merely transferred.
8. Quantized means that there is a smallest possible amount of charge of which all other amounts of charge are multiples.
9. One quantum unit of charge is that of an electron (or proton).
10. A coulomb is much larger than the charge of an electron; one coulomb is the charge of  $6.25 \times 10^{18}$  electrons!
11. Both laws are inverse-square laws. How they differ is mainly that gravitation is only attractive, whereas electrical forces can repel.
12. Atoms of metals are good conductors because of their free outer electrons.
13. Atoms of insulators are poor conductors because of their strong hold on their electrons.
14. A semiconductor can be made to conduct or insulate.
15. A transistor is composed of thin layers of semiconducting materials. Functions include controlling the flow of electrons, amplifying signals, and acting as switches.
16. Flow in a superconductor is without electrical resistance.

# Conceptual Physics 22 Electrostatics Exercises Answers

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