

## Review Questions For Electricity

### True or False

1. The electrostatic series is a list used to determine the kind of electric charge produced on each substance when they are rubbed together. **True**
2. You do not have to wear safety clothing in flour mills and grain elevators. **False**
3. Conductors are substances in which the electrons can not move freely from one atom to another. **False**
4. The law of electric charges states : like charges repel one another and unlike charges attract one another. **True**
5. The term “static” means to move from one spot to another constantly. **False**
6. When a person combs their hair, their hair will become positive and the comb will become negative. **True**
7. An example of an insulator is copper. **False**
8. Charging by induction means charging without touching. **True**
9. A neutral dust particle will attract to a charged tv because like charges repel and unlike charges attract. **True**
10. The two kinds of electric charges are negative and neutral **False**

## Answers to Chapter 9 Review

- 1) The charge remains on the material, therefore the material stay charged. Ex: hair and balloon.
- 2) The study of static charges.
- 3) positive and negative ions.
- 4) like charges repel one another and unlike charges attract one another.
- 5) the electrons move when charges are transferred from one atom to the other.
- 6) c.
- 7) friction, contact, induction.
- 8) When objects are rubbed together which causes the charges to build up.
- 9) hair and balloon, wool sock and silk blouse.
- 10) list to determine the charge on different materials

## Answers to Chapter 9 Review

- 11) a. cotton (-)    wool (+)  
    b. hair (+)     plastic comb (-)  
    c. silk (+)     cotton (-)
- 12) transferring a charge through touching an object.
- 13) touching a doorknob with your hand after you have rubbed your feet on carpet.
- 14) transferring charge without contact.
- 15) Example a TV screen and dust.
- 16) substance where electrons can't move freely through a material.
- 17) Rubber, plastic
- 18) substance that allows electrons to move freely through a material.

## Answers to Chapter 9 Review

- 19) copper, aluminum.
- 20) the air is drier, therefore the electrons are not conducted away from an object.
- 21) Two ways to discharge objects are by grounding or discharging at a point.  
    Grounding is when there is a wire connected from the object to the earth any charge the object receives gets transferred to the earth.  
    Discharging at a point is when something like a static wick is used on an airplane to remove the charges from the pointy tip into the air.
- 22) Static wicks work because they are conductors and the charges move down the pointed object and are dispersed through the air.