

Static Electricity : Review-10

- 1) What is static electricity?
- 2) Give the three laws of electrical charges.
- 3) All matter is composed of atoms. Answer the following questions.
 - a) What are the three particles that make up atoms?
 - b) Which two of the three particles are found in the nucleus?
 - c) Which of the three particles is the smallest?
 - d) Which particle can be removed from the atom?
- 4) A vinyl comb is used to comb your hair. Answer the following questions.
 - a) What is the charge on the comb?
 - b) What is the charge on your hair?
 - c) Which attracts electrons more strongly; the comb, or hair?
- 5) What device is used to detect a charge?
- 6) A piece of styrofoam will stick to a wall after it has been rubbed by a piece of wool. Explain.

Answers: 1) It is electricity that is not moving. It is caused by an excess or deficit of electrons., 2) Like charges repel, unlike charges attract, and any charged object will attract a neutral object., 3)a) protons, neutrons, and electrons., b) protons and neutrons., c)

electron, d) electron., 4)a) negative, b) positive, c) comb, 5) electroscope, 6) The styrofoam will be charged negative and will be attracted to the neutral wall.