

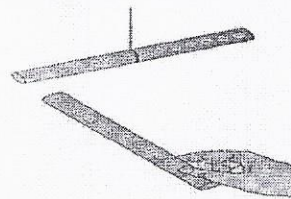
By signing below, I understand that if I have any electronic devices during this class I will get a zero on this evaluation.

Name _____

Static Electricity Quiz - Version A /28

1. A body is negatively charged when
- A) it has gained extra electrons
 - B) it has gained protons
 - C) it has lost electrons
 - D) it has lost neutrons

2. A charged polythene rod is brought close to a similarly charged polythene rod. Which one of the following is most likely to happen?

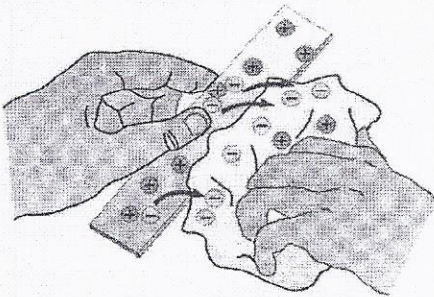


- A) The top rod spins wildly around.
- B) Nothing happens.
- C) The rods repel each other.
- D) The rods attract each other.

3. A polythene rod gains a negative charge when it is rubbed with a cloth. Which one of the following statements best explains how this happens?

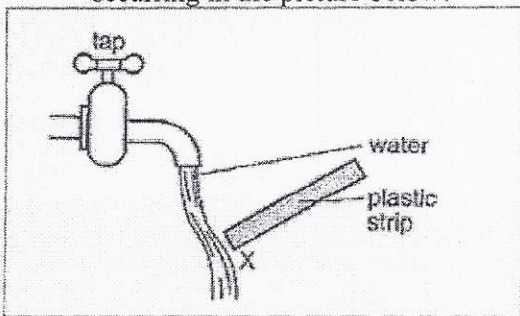
- A) Protons transfer to the cloth from the polythene rod
- B) Electrons transfer to the cloth from the polythene rod
- C) Electrons transfer from the cloth to the polythene rod
- D) Protons transfer from the cloth to the polythene rod

4. Removing electrons from a glass rod by rubbing it with cotton cloth will give the rod a _____.



- A) positive charge by receiving protons
- B) positive charge by removing electrons
- C) negative charge by receiving electrons
- D) negative charge by removing protons

5. A charged plastic rod is brought close to (but does not touch) another neutral rod. Which one of the following is most likely to happen?
- A) The rods attract each other because they are the same charge
 - B) The rods repels each other because they opposite charges
 - C) The rods repel each other because they are the same charge
 - D) The rods attract each other because of the charged rod only
6. What would happen if a positively charged glass rod touched a neutral suspended sphere?
- A) The sphere gives up positive charges to the rod.
 - B) The sphere gives up negative charges to the rod.
 - C) The sphere receives negative charges from the rod.
 - D) The sphere receives charges from the rod.
7. A plastic strip was rubbed with a wool cloth. The plastic strip was then brought to faucet which was turned on and water was flowing out of it. Which answer best explains what is occurring in the picture below?



- A) The charged plastic strip is repelling the neutral water.
- B) The charged plastic strip is attracting the neutral water.
- C) The positively charged plastic strip is attracting the negatively charged water.
- D) The negatively charged plastics strip is attracting the positively charged water.