1. A glass object receives a positive charge by rubbing it with a silk cloth. In the rubbing process, have protons been added to the object or have electrons been removed from it?

A. Protons have been added.

B. Electrons have been removed.

2. A balloon clings to a wall after it is negatively charged by rubbing. Does that occur because the wall is positively charged?

_The wall itself remains neutral, but the surface of the wall becomes positively charged due to the process called polarization. The electrons of the atoms close to the surface shift away from the negatively charged balloon leaving the surface positively charged._

3. Three objects are brought close to each other, two at a time. When objects A and B are brought together, they repel. When objects B and C are brought together, they also repel. Which of the following are true? (Select all that apply.)

a. One object is neutral.

b. Objects A and C possess charges of the same sign.

c. Objects A and C possess charges of opposite sign.

d. Additional experiments must be performed to determine the signs of the charges.

e. All three objects possess charges of the same sign.