



1. True or False


- a) F, protons don't transfer (loss of e^-)
 b) F, coulomb (c)
 c) T, electrolytes in blood

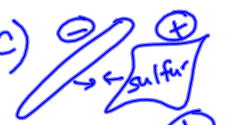

2.

- a) porcelain (ceramic) - insulator
 b) copper - conductor
 c) Resistor - semi-conductor
 d) filament  = conductor
 e) insulator - rubber

3)

a)  = Same charges

b)  = opposite charges

c)  = opposite charges
 Same.

4.

a) $14p^+$ - positive because there are more protons.
 $16n^0$
 $11e^-$

$$\begin{array}{r} 14p^+ \\ - 11e^- \\ \hline 3p^+ \end{array}$$

b) $8p^+$ - Negative \Rightarrow More electrons.
 $8n^0$
 $10e^-$

$$\begin{array}{r} 8p^+ \\ - 10e^- \\ \hline 2e^- \end{array}$$