

Name: _____

Do not look at the answers until you have tried every question first!**Total marks**
Inquiry**/72 Knowledge and Understanding /5 Thinking and****Part A: Multiple Choice** *Circle the best answer*
[20 KU]

1. In a conductor, the moving charges are usually:
a) protons
b) **electrons**
c) neutrons
d) charges cannot move in a conductor
2. A series of dry cells connected together is called a:
a) resistor
b) voltage
c) lamp
d) **battery**
3. A good example of an insulator:
a) salt water
b) iron
c) copper
d) **plastic**
4. The four basic components of a circuit are:
a) power source, lamps, resistors, batteries
b) wires, connectors, switches, lamps
c) **power source, connectors, loads, switches**
d) batteries, lamps, resistors, fuses
5. The invention of the voltaic cell is attributed to:
a) Benjamin Franklin
b) **Alessandro Volta**
c) Guglielmo Marconi
d) Andre-Marie Ampere
6. A list of materials placed according to how strongly they hold on to electrons is called:
a) **the electrostatic series**
b) the law of electrostatics
c) the electronic list
d) the law of electromagnetics
7. The three methods of charging an object are:
a) **contact, induction, friction**
b) friction, contact, deduction
c) contact, induction, grounding
d) induction, friction, grounding
8. One kilowatt is equal to:
a) 1 Watt
b) 10 Watts
c) 100 Watts
d) **1000 Watts**
9. This is a measure of how much energy is being used per unit of time:
a) current
b) voltage
c) **power** $P = E/t$
d) resistance
10. A 480W computer is left on for 8 hours during the day. The energy wasted is:
a) 8 Watt hours
b) 480 Watt hours
c) 60 Watt hours
d) **3840 Watt hours**
11. The purpose of a fuse is:
a) **to break a circuit if too much current is passing through**
b) to add resistance to a circuit
c) to make a battery less powerful

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Sebastian Brünink

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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