Multiple Choice Online Test
Indicate the correct answer by clicking on the button next to the numbers 1, 2, 3 or 4. There is only one correct answer per question. After you have answered all multiple choice questions compare your choices with the correct answers.

Electricity I

1.) If a current of 3 A is divided by the following circuit, the current flowing through the 4 Ohm resistor is ...

1. 3 A
2. 2 A
3. 1.5 A
4. 1 A

2.) The diagram at the right shows part of a circuit into which a current I is flowing. Which ammeter shows the highest reading?

1. A1
2. A2
3. A3
4. All three ammeters give the same reading

3.) The diagram to the right represents a part of a circuit containing an ohmic resistor, a voltmeter and an ammeter. If the reading on the ammeter A increases the reading on voltmeter V ...

1. increases in the same ratio.
2. increases, but not in the same ratio.
3. remains unchanged.
4. decreases in the same ratio.

4.) A battery is connected to two identical light bulbs in parallel as well as another identical bulb in series. An ammeter and a voltmeter are also connected as shown in the circuit diagram below.

One of the light bulbs connected in parallel is unscrewed. How will the ammeter and the voltmeter readings change?