

QUESTION 11

The circuit diagram shows a circuit consisting of a battery of negligible resistance, two ammeters also of negligible resistance, three resistors and two high resistance voltmeters.

The reading on A_1 is 1 A .



11.1 Define the term *electric current*. (2)

11.2 Complete the following sentence by filling in the missing words.

Resistors in series divide (11.2.1) ... and resistors in parallel divide (11.2.2) ... (2)

11.3 Calculate the:

11.3.1 Effective resistance of the parallel combination of resistors (3)

11.3.2 Total resistance of the circuit (2)

11.3.3 Amount of charge passing through ammeter A_2 in 5 seconds (5)

11.4 How does the potential difference across the $6\ \Omega$ resistor compare to the potential difference across the $12\ \Omega$ resistor?

Write down only LESS THAN, GREATER THAN OR EQUAL TO.

Give a reason for the answer. (3)

11.5 If the $6\ \Omega$ -resistor 'burns out' will the total resistance of the circuit INCREASE, DECREASE or REMAIN THE SAME? (2)

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