8.2.1 State in words, Ohm's law.

(2)

With switch S<sub>1</sub> closed and S<sub>2</sub> open, the ammeter reads 3 A.

8.2.2 Calculate the resistance of resistor Rs.

(3)

8.2.3 Determine the reading of the voltmeter.

(3)

Both the switches S<sub>1</sub> and S<sub>2</sub> are now closed.

8.2.4 How will the reading on the voltmeter be affected? Write down only INCREASES, DECREASES or REMAINS THE SAME. Explain the answer.

(3) [17]

[8]

#### QUESTION 9

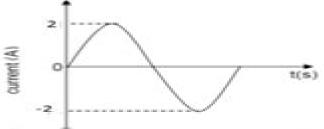
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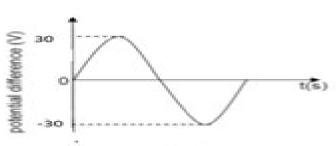
MyCiti buses make use of electric motors on windscreen wipers as well as AC generators for recharging batteries.

9.1 The table below compares a motor and a generator in terms of the type of energy conversion, type of rings connected to brushes and the underlying principle on which each operates. Complete the table by writing down only the question number (9.1.1–9.1.3) in your ANSWER BOOK and next to each number your answer.

	TYPE OF ENERGY CONVERSION	TYPE OF RINGS CONNECTED TO BRUSHES	PRINCIPLE OF OPERATION
Electric motor	9.1.1		
AC generator		9.1,2	9.1.3

9.2 Graphs of the current and potential difference outputs of an AC generator is shown below.





To recharge the battery, the Myciti bus requires a power output of 48 W. Determine by suitable calculation(s), whether the above generator can be used to recharge the battery of the Myciti bus. (5)

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