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## Essay Questions

01 The following circuit diagram shown the procedure of measuring resistance of Resistor (R).



- (i) Name the component x.
- (ii) Write a function of a in the circuit.
- (iii) The following table shows the variation of potential difference over the current in a resistor.

I(A)	V(V)
0.2	1
0.4	2
0.6	3
0.8	4
1.0	5

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- (a) Draw a graph V in Y axis vs I in X axis?
- (b) Using the graph find the resistance of R.
- (iv) Find the current across the resistor when 12V potential difference is passed through  $6\Omega$  resistor?
- 02 In the circuit shown, the two bulbs are of different size and brightness.



- (i) (a) What type of meter is X?
  - (b) What type of meter is Y?
  - (c) What is the reading of meter Y?
  - $(d) \quad What is the method of connection of A and B bulbs.$
- (ii) Amal needs a resistor of  $30\Omega$  and  $\frac{10}{2}\Omega$ . But he could only find 3 resistors with resistance  $10\Omega$ .
  - (a) Briefly explain how you could make a combination of resistors to obtain  $30\Omega$  resistance.
  - (b) Give a figure using symbols showing how you could make a combination of resistors having a resistance of  $\frac{10}{3} \Omega$ .
  - (iii) Give factors affect for the resistance of a conductor rather than temperature.
  - (iv) State the Ohm's law.

(04)

