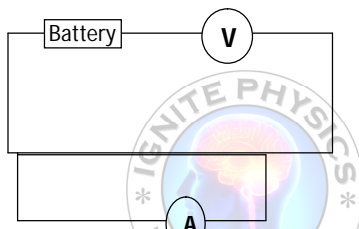


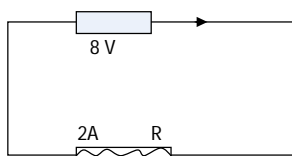
11. ELECTRIC CURRENT

1. What are differences between potential difference and electro motive force ?
2. Vineel wants to verify Ohm's law experimentally. Can you suggest the material required ?
3. How can you prove that $\frac{V}{I}$ is constant in an electric circuit ?
4. State and Explain Kitchhoff's laws.
5. Can you guess the merits and demerits of series and parallel combinations of bulbs ?
6. A house has two bulbs . Each bulb draws 60 W. On the average, two bulbs are kept on for 6 hours a day. Find the cost of electric energy consumed in one month ath the rate of Rs. 2.80 per 1 KWH ?
7. Three 4Ω resistors are connected in parallel. Find the resultant resistance.
8. Three 3Ω resistors are connected in series. Find the resultant resistance.
9. Mounika Observed the following diagram. Identified that there are two mistakes in this diagram.

Can you identify them ?



10. Write any one application of Ohm's law.
11. On an electric heater 2.2 KW and 220 V was printed. Calculate the resistance of the heater.
12. Why electrons alone are the current carriers in a conductor ?
13. What precautions to be taken to get rid off from electric shock ?
14. Two bulbs have ratings 100W, 220V and 60W, 220V. Which one has the lowest resistance?
15. Three resistors of values 2Ω , 4Ω , 6Ω are connected in series then find the equivalent resistance of that combination.
16. Three resistors of values 2Ω , 4Ω , 6Ω are connected in parallel then find the equivalent resistance of that combination.
17. Identify the Resistance value in the following circuit.



18. How can you add the following in an electric circuit ?
(a) Ammeter (b) Volt meter

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19. Do all substances allow electricity to pass through them ? Why ?
20. Why the electrons do not flow out from the battery, until it will connect with a conductor?