

ASSIGNMENT - CLASS-8 (PHYSICS)

- Q(1) A current of 150 mA flows through a circuit for 2 minute. Find the amount of charge that flows through the circuit.
- Q(2) A total of 6×10^{46} electrons flows through a current carrying conductor when connected through an external power supply for 20 sec. find the value of current in the conductor.
- Q(3) Draw the symbols of battery, Ammeter, voltmeter, a resistor of resistance R and rheostat.
- Q(4) State the relation between potential difference, work done and charge moved.
- Q(5) Calculate the work done in moving a charge of $4C$ from a point at $220V$ to a point at $230V$.
- Q(6) Draw a circuit diagram to verify Ohm's law experimentally.
- Q(7) Should the resistance of an ammeter be low or high? Give reason.
- Q(8) Draw a circuit diagram using a cell of two batteries, two resistors of 3Ω each connected in series, a plug key and a ~~set~~ rheostat.

Q(9) The potential difference between the terminals of an electric heater is $75V$ when it draws a current of $5A$ from the source. What current will the heater draw, if the potential difference is increased to $150V$?

Q(10) What is the difference between a good conductor and a poor conductor? Give two examples of each.