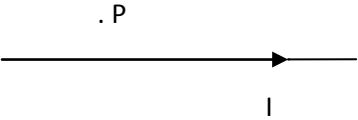


S.No	QUESTIONS								
1	Draw the symbols of ammeter and battery. Write one function of each.								
2	Should the heating element of an electric iron be made of iron, silver or nichrome wire? Justify your answer.								
3	A wire of length "l" and resistance "R" is stretched so that its length is double and the area of cross section is halved. How will its(a) resistance (b) resistivity change?								
4	Two resistor of resistance "R" and "2R" are connected in parallel in an electric circuit. Calculate the ratio of the electric power consumed by "R" and "2R"?								
5	A copper wire has diameter 0.5mm and resistivity of $1.6 \times 10^{-8} \Omega \text{m}$ . what be the length of this wire to make its resistance $10 \Omega$ ?								
6	A wire of resistance R is cut into five equal pieces are connected in parallel and equivalent resistances of the combination are R'. Calculate their ratio.								
7	Why does the connecting chord of an electric heater not glow while the heating element does?								
8	Draw a schematic diagram of a circuit consisting of 3V battery, $5 \Omega$ , $3 \Omega$ and $1 \Omega$ resistor, an ammeter and a plug key all connected in series.								
9	<p>The length of different metallic wires but of same area of cross section and made of same material are given below.</p> <table border="1"> <thead> <tr> <th>Wire</th><th>length</th></tr> </thead> <tbody> <tr> <td>A</td><td>1m</td></tr> <tr> <td>B</td><td>1.5m</td></tr> <tr> <td>C</td><td>2m</td></tr> </tbody> </table> <p>(i) Out of these wires which wire has higher resistance?  (ii) Which wire has higher resistivity?</p>	Wire	length	A	1m	B	1.5m	C	2m
Wire	length								
A	1m								
B	1.5m								
C	2m								
10	State the properties of magnetic lines of force.								
11	Mention two ways of inducing current in a coil.								
12	What is the function of an earth wire? Why is it necessary in a domestic circuit?								



13	State the three factors on which magnetic field produced by a current carrying solenoid depends.
14	A positively charged particle projected towards west is deflected toward north by a magnetic field. Find out the direction of the magnetic field.
15	Find the direction of the magnetic field at a point P above the wire carrying current as shown in the figure.  
16	What is overloading? How can you avoid overloading?
17	Define the term current rating of an electric fuse.
18	A current carrying conductor is placed perpendicular to the uniform magnetic field. What happens to the displacement of the conductor if strength of current increases.
19	How does the construction of dams across the river get linked with production of greenhouse gases?
20	List any three limitations of harnessing wind energy.