## **EXEMPLAR POINT**

A Complete Institute For Students

CREATING AND SETTING EXAMPLES FOR FUTURE...

## MM : 30 HR.

## X SCIENCE TEST ON ELECTRICITY

1.	Define 1 ampere.	1
2.	Name the instrument which is used to maintain the potential difference.	1
3.	Write two factors on which the resistance of a material depends.	1
4.	When a 12 volt battery is connected across an unknown resistor, there is a current of 2.5 mA in the c Find the value of the resistance.	ircuit. <b>2</b>
5.	A radio set draws a current of 0.36 A for 15 minutes. Calculate the amount of electric charge that through the circuit.	flows <b>2</b>
6.	Give two reasons why nichrome alloy is used for making the heating elements of electrical appliar	ces. <b>2</b>
7.	Define resistivity. Write an expression of the resistivity of a substance. Give the meaning of each sy which occurs in it.	mbol <b>2</b>
8.	Give the symbols of a fix resistance, variable resistance, a cell and a wire joint.	2
9.	The resistance of a metal wire of length 1m is $26\Omega$ . If the diameter of the wire is 0.3 mm, what will b resistivity of the metal.	e the 3
10.	A 4 Ohm resistance wire is doubled up by folding. Calculate the new resistance of the wire.	3
11.	Define electric circuit. Draw the labelled diagram of an electric circuit comprising of a cell, a resist ammeter, a voltmeter and a close switch.	or, an <b>3</b>
12.	The potential difference between the terminals of an electric heater is 60 V when it draws a currer ampere from the source. What current will the heater draw if the potential difference is increase to 1	
13.	With the help of a labelled diagram explain the experiment to verify Ohm's law.	5