WORKSHEET-147

Name	Class.....	Roll No.....	Time 25 Min.	Max. Marks 17	Marks Obtained

TOPIC-1
Electric Current

R Q. 1. State in brief the meaning of an electric circuit. **[Board Term I, Set (34); 2010 (C2), 2011] (1)**

Ans. .....

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R Q. 2. State the relationship between 1 ampere and 1 coulomb. **[Board Term I, Set (36), 2011] (1)**

Ans. .....

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R Q. 3. State the physical quantity which is equal to the ratio of potential difference and current. Define its SI unit. **[Board Term I, Set (44), 2012] (2)**

Ans. .....

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R Q. 4. List in a tabular form two differences between a voltmeter and an ammeter. **[Board Term I, Set (43), 2012] (2)**

Ans. .....

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R Q. 5. Name and define S.I. unit of resistance. Calculate the resistance of a resistor if the current flowing through it is 200 mA, when the applied potential difference is 0.8 V. **[Board Term I, Set (41), 2012] (3)**

Ans. .....

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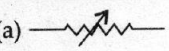
R **Q. 6.** Define resistance. Write the SI unit of resistance. Match the correct range of resistivity with the materials given :

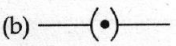
(i) Conductors	(a) 10^{-6} Ωm
(ii) Alloys	(b) 10^{12} to 10^{17} Ωm
(iii) Insulators	(c) 10^{-6} to 10^{-8} Ωm **[Board Term I, Set (40), 2012] (3)**

Ans.

R **Q. 7.** (i) Name an instrument that measures electric current in a circuit. Define unit of electric current.

(ii) What are the following symbols mean in an electric circuit.

(a) 

(b) 

(iii) Draw a closed circuit diagram consisting of 0.5 m long nichrome wire XY, an ammeter, a voltmeter, four cells of 1.5 V and a plug key. **[Board Term I, Set-OQKPLGV, 2016] (5)**

Ans.

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