

Name .....

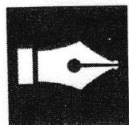
Class.....

Roll No.....

Time  
20 Min.

Max.  
Marks  
12

Marks  
Obtained

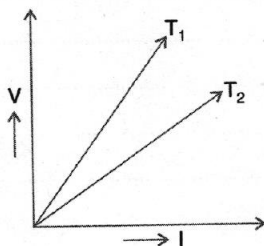


### TOPIC-1 Electric Current

**A Q. 1.** Calculate the number of electrons constituting one coulomb of charge.  
(charge on 1 electron =  $1.6 \times 10^{-19}$  C) [Board Term I, Set-3R6QRQL, 2013] (1)

Ans. ....  
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**A Q. 2.** The voltage-current (V-I) graph of a metallic conductor at two different temperatures  $T_1$  and  $T_2$  is shown below. At which temperature is the resistance higher? [Board Term I, Set (13), 2011] (1)



Ans. ....  
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**A Q. 3.** A battery of 12 V is connected to a series combination of resistors 3 W, 4 W, 5 W and 12 W. How much current would flow through the 12 W resistor? [Board Term I, Set (37), 2012] (2)

Ans. ....  
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**A Q. 4.** The resistance of a wire of 0.01 cm radius is  $10\Omega$ . If the resistivity of the material of the wire is  $50 \times 10^{-8}$  ohm meter, find the length of the wire. [Board Term I, Set-5X7289R, 2014] (3)

Ans. ....  
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