

## Physics ICS Part 2 Chapter 13 Online MCQ's Test

Sr	Questions	Answers Choice
1	Resistivity at a given temperature depends upon.	A. Area of cross section B. Length C. Nature of material of conductor D. Both length and area
2	Which one of the following bulbs has the least resistance.	A. 100 W B. 200 W C. 500 W D. 1000 W
3	Two resistance of 2 Ohm each are connected in parallel combination equivalent resistance will be.	A. 4 Ohm B. 2 Ohm C. 1 Ohm D. 8 Ohm
4	A rheostat can operate as.	A. Amplifier B. Potential divider C. Oscillator D. Transformer
5	Calculate current in 2 2R /4Ω resistor.	A. 1 A B. 2R /4Ω C. R/3Ω D. 2R /3Ω
6	The resistivity of two wires is $\rho_1$ and $\rho_2$ which are connected in series. If there dimensions are same then the equivalent resistivity of the combination will be:	A. $\left(\frac{\rho_1 + \rho_2}{2}\right)$ B. $\frac{\rho_1 + \rho_2}{2}$ C. $\frac{\rho_1 + \rho_2}{2}$ D. $\frac{\rho_1 + \rho_2}{2}$
7	The current through a resistance of 100 Ohm when connecting across a source of 220 V is.	A. 2200 A B. 22 A C. 2.2 A D. 0.45 A
8	During electrolysis process, density of $\text{CuSO}_4$ solution	A. Remains constant B. Decreased C. Increased D. None of these
9	Colour codes are used to calculate the.	A. Nature of resistor B. Numerical value of resistance C. Potential difference D. Current
10	The unit of resistance is:	A. Ω B. Ωm C. Ω <sup>-1</sup> m <sup>-1</sup> D. Ωm <sup>-1</sup>

11	Heat sensitive resistors are called.	A. resistors B. Capacitor C. Thermistors D. Inductors
12	For ohmic device the graph between V and I is.	A. A straight line B. Curve C. Hyperbola D. Parabola
13	Magnetic effect of current is used	A. To detect a current B. To measure a current C. In electric motor D. All of above
14	The unit of conductivity is:	A. $\text{Ohm}^{-3}\text{m}^{-1}$ B. $\text{Ohm m}^{-1}$ C. Both a and b D. $\text{Ohm m}^{-1}$
15	The value of maximum output power is?	A. $E/4R$ B. $E^2/4R$ C. $E/4R^2$ D. Non of above
16	The conventional current is due to the flow of	A. Atoms and molecules B. Positive charge C. Negative charge D. Bot (b) and (c)
17	The drift velocity is of order:	A. $10^{-13}\text{m/s}$ B. $10^3\text{m/s}$ C. $10^{-3}\text{m/s}$ D. $10^{-4}\text{m/s}$
18	If the resistance of 500 Ohm have fourth band of silver colour then its upper maximum resistance will be.	A. 600 Ohm B. 550 Ohm C. 450 Ohm D. 400 Ohm
19	The heat produced by passage of current.	A. $H=I^2Rt$ B. $H=IR^2T$ C. $H=I/Rt$ D. $H=I^2R/t$
20	Three resistors of resistance R each are combined in various ways, Which of the following cannot be obtained?	A. $3R$ B. $2R/4$ C. $R/3$ D. $2R/3$