

Physics ICS Part 2 Chapter 13 Online MCQ's Test

Sr	Questions	Answers Choice
1	In gas the charge carriers are:	A. Electrons B. Ions C. Both a & b D. None of above
2	The current through a resistance of 100 Ohm when connecting across a source of 220 V is.	A. 22000 A B. 22 A C. 2.2 A D. 0.45 A
3	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
4	mho $\cdot m^{-1}$ is the unit of.	A. Resistance B. Resistivity C. Conductance D. Conductivity
5	10^6 electrons are moving through a wire per second the current developed is:	A. 1.6×10^{-19} A B. 1 A C. 1.6×10^{-13} A D. 106 A
6	Drift velocity of electrons is.	A. 10^{-1} m/s B. 10^{-2} m/s C. 10^{-3} m/s D. 10^3 m/s
7	The condition for the wheatstone bridge to be balanced is given by	D. None of above
8	One ohm is equal to	A. VC-1 B. CV-1 C. AC-1 D. $V A^{-1}$
9	Thermocouple is an arrangement of two different metals:	A. Two convert heat energy into electrical energy B. To produce more heat C. To convert heat energy into chemical energy D. To convert electrical energy into heat energy
10	5 A of current flows through a conductor in 2 minutes, charge in the wire is.	A. 500 C B. 600 C C. 400 C D. 10 C
11	A certain wire has a resistance R, the resistivity of an other wire of an identical material with the first, except for twice its diameter is.	A. $\frac{1}{4} R$ B. 4R C. 2R D. Same as R
12	Semiconductor diodes are called:	A. Ohmic B. non ohmic C. Both a & b D. none of above
13	The product of resistance and conductance is	A. 1 B. Resistivity C. Conductance D. Zero
14	When a potential difference of 4 volt is applied across resistance, 10 J of energy is converted Find charge flows	A. 0.20 C B. 2.5 C C. 5.0 C D. 10.0 C
15	The resistivity of -----decrease with the increase in temp	A. Gold B. Silver C. Copper D. Silicon

16	The resistivity of two wires is ρ_1 and ρ_2 which are connected in series. If their dimensions are same then the equivalent resistivity of the combination will be:	<p>A. $\rho_1 + \rho_2$</p> <p>B. $\frac{\rho_1 + \rho_2}{2}$</p> <p>C. $\frac{\rho_1 \rho_2}{\rho_1 + \rho_2}$</p> <p>D. $\frac{\rho_1 \rho_2}{\rho_1 - \rho_2}$</p>
17	The powers of two electric bulbs are 100w and 200w. Which are connected to power supply of 220 V. The ratio of resistance of their filament will be:	<p>A. 1:2</p> <p>B. 2:1</p> <p>C. 1:3</p> <p>D. 4:3</p>
18	Which one of the following bulbs has the least resistance.	<p>A. 100 W</p> <p>B. 200 W</p> <p>C. 500 W</p> <p>D. 1000 W</p>
19	The color code of "Green"	<p>A. 8</p> <p>B. 3</p> <p>C. 5</p> <p>D. 7</p>
20	Colour codes are used to calculate the.	<p>A. Nature of resistor</p> <p>B. Numerical value of resistance</p> <p>C. Potential difference</p> <p>D. Current</p>