

Physics ICS Part 2 Chapter 13 Online MCQ's Test

Sr	Questions	Answers Choice
1	A charged conductor has charge on its.	A. Inner surface B. Outer surface C. Middle surface D. Surrounding space
2	Unit (S.I) of temperature coefficient of resistivity of a material is	A. K B. K^{-1} C. $^{\circ}C$ D. K^{-2}
3	Which one of the following bulbs has the least resistance.	A. 100 W B. 200 W C. 500 W D. 1000 W
4	When a wire is stretched and its radius becomes $r/2$, then its resistance will be	A. 16 R B. 4 R C. 2R D. 0
5	Thermosouple 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
6	A wire uniform cross-section. A length L and resistance R is cut into two equal parts. The resistivity of each part will be:	A. Doubled B. Halved C. Remain the same D. One fourth
7	Heat sensitive resistors are called.	A. resistors B. Capacitor C. Thermistors D. Inductors
8	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
9	Three resistors of resistance R each are combined in various ways, Which of the following cannot be obtained?	A. 3 RΩ B. $2R/4\Omega$ C. $R/3\Omega$ D. $2R/3\Omega$
10	Resistance tolerance of silver band is.	A. 10% B. 6% C. 7% D. 5%
11	An ideal current source shall have resistance	A. Zero B. Finite but not zero C. Infinite D. Depend upon requirement
12	A rheostat can operate as.	A. Amplifier B. Potential divider C. Oscillator D. Transformer
13	The algebraic sum of potential change in a closed circuit is zero.	A. Kirchoff's 1st rule B. Kirchoff 2 nd rule C. Kirchoff's 3 rd rule D. Kirchoff 4 th rule
14	One ohm is equal to	A. VC-1 B. CV-1 C. AC-1 D. VA^{-1}

15	Kirchhoff's first rule is the manifestation of the law of conservation of.	A. Mass B. Charge C. Energy D. Momentum
16	The unit of resistance is:	A. Ω B. Ωm C. $\Omega^{-1} m^{-1}$ D. Ωm^{-1}
17	Heat generated by a 40 W bulb in one hour is.	A. 140 J B. 1440 J C. 14400 J D. 144000 J
18	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
19	106 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
20	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