Physics ICS Part 2 Chapter 13 Online MCQ's Test

Sr	Questions	Answers Choice
1	106 electrons are moving through a wire per second the current developed is:	A. 1.6 x 10-19 A B. 1 A C. 1.6 x 10-13A D. 106 A
2	Seven resistances are connected as shown in the figures . THe equivalent resistance between A and B is:	A. 3Ω B. 4Ω C. 4.5Ω D. 5Ω
3	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:	A. 1:2 B. 2:1 C. 1:3 D. 4:3
4	The reciprocal of resistance is called.	A. Capacitance B. Resistance C. Conductance D. Inductance
5	Which one of the following bulbs has the least resistance.	A. 100 W B. 200 W C. 500 W D. 1000 W
6	The SI unit of resistivity is.	A. Ohm m-2 B. Ohm m-1 C. Ohm m D. Ohm
7	The condition for the wheatstone bridge to be balanced is given by	D. None of above
8	Specific resistance of a material depends upon.	A. Length B. Area C. Temperature D. Both A and B
9	By increasing the temperature of conductor, the flow rate of charges.	A. Increase B. Remains constant C. Decreases D. Changes exponentially
10	What is the resistance of carbon resistor which has band brown black brown.	A. 100 Ohm B. 1000 Ohm C. 10 Ohm D. 1.0 Ohm
11	The head produced by the passage of current through a resistor is.	A. H= I²Rt B. H = IR²t C. H = 1/Rt D. H = I²/Rt
12	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
13	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
14	A rheostat can be used as variable resistor as well as a----------	A. Potential divider B. Current divider C. Wheat stone bridge D. Power divider

15	For non-ohmic devices, the graph between V and I is	A. Not a straight line B. A straight line C. A curve D. All of above
16	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
17	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
18	If a charge Q flows through any cross section of the conductor in time t, the current I is	A. I=Qt B. I= Q/t C. I= Q*t D. I= Q-t
19	The value of maximum output power is?	A. E/4R B. E²/4R C. E/4R² D. Non of above
20	The heat produced by passage of current.	A. H=I²Rt B. H=IR2T C. H=I/Rt D. H=I²/Rt