Physics FSC Part 2 Chapter 13 Online MCQ's Test

Sr	Questions	Answers Choice
1	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
2	The free electrons experience force.	A. In direction of -E B. In direction of E C. Both A and B D. All of the above
3	The fraction change in resistance per Kelvin is known as:	A. Temperature coefficient of Resistance B. Coefficient of voltage of change C. Thermal expansion D. All of the above
4	The unit of conductivity is:	A. Ohm⁻³m⁻¹ B. Ohm m⁻¹ C. Both a and b D. Ohm m⁻¹
5	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
6	The potential difference between the head and tail of an electrical to	A. 600 Volt B. 700 Volt C. 800 Volt D. 900 Volt
7	Ampere second stands for the unit of.	A. Charge B. emf C. energy D. Power
8	The condition for the wheatstone bridge to be balanced is given by	D. None of above
9	Heat generated by a 40 W bulb in one hour is.	A. 140 J B. 1440 J C. 14400 J D. 144000 J
10	The product of resistance and conductance is	A. 1 B. Resistivity C. Conductance D. Zero
11	Kirchhoff's voltage rule is a way of stating conservation of.	A. Mass B. Charge C. Energy D. Momentum
12	The unit of resistance is:	A. Ω B. Ωm C. Ω⁻¹m⁻¹ D. Ωm⁻¹
13	mho -m-1 is the unit of.	A. Resistance B. Resistivity C. Conductance D. Conductivity
14	By increasing the temperature of conductor, the flow rate of charges.	A. Increase B. Remains constant C. Decreases D. Changes exponentially
15	Colour codes are used to calculate the.	A. Nature of resistor B. Numerical value of resistance C. Potential difference D. Current

16	A rheostat can operate as.	A. Amplifier B. Potential divider C. Oscillator D. Transformer
17	The thermistors convert changes of temperature into.	A. Light energy B. Electric voltage C. Heat D. Sound
18	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
19	Kirchhoff's first rule is the manifestation of the law of conservation of.	A. Mass B. Charge C. Energy D. Momentum
20	Semiconductor diodes are called:	A. Ohmic B. non ohmic C. Both a & b D. none of above