Physics FSC Part 2 Chapter 13 Online MCQ's Test

Sr	Questions	Answers Choice
1	Kirchhoff's first rule is the manifestation of the law of conservation of.	A. Mass B. Charge C. Energy D. Momentum
2	For ohmic device the graph between V and I is.	A. A straight line B. Curve C. Hyperbola D. Parabola
3	One ohm is equal to	A. VC-1 B. CV-1 C. AC-1 D. VA⁻¹
4	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
5	The Kirchhoff 1st rule is manifestation of:	A. Law of conservation of mass B. Law of Conservation of charge C. Law of conservation of energy D. None of above
6	A rheostat can operate as.	A. Amplifier B. Potential divider C. Oscillator D. Transformer
7	If there is no fourth band, tolerance is shows as	D. 10%
8	Drift velocity of electrons is.	A. 10⁻¹ m/s B. 10⁻² m/s C. 10⁻³ m/s D. 10³ m/s
9	Magnetic effect of current is used	A. To detect a current B. To measure a current C. In electric motor D. All of above
10	Ampere second stands for the unit of.	A. Charge B. emf C. energy D. Power
11	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
12	Three resistors of resistance R each are combined in various ways, Which of the following cannot be obtained?	A. 3 RΩ B. 2R /4Ω C. R/3Ω D. 2R /3Ω
13	Semiconductor diodes are called:	A. Ohmic B. non ohmic C. Both a & b D. none of above
14	e.m.f is the conversion of ---------- energy into electrical energy	A. Chemical B. Solar C. Light D. None of these
15	The unit of resistance is:	A. Ω B. Ωm C. Ω⁻¹m⁻¹ D. Ωm⁻¹
16	The heat produced by passage of current.	A. H=I²Rt B. H=IR2T C. H=I/Rt

		D. H=I²/Rt
17	Heat energy is converted into electrical energy.	A. Solar cells B. thermocouples C. Electric generators D. None of above
18	By increasing the temperature of conductor, the flow rate of charges.	A. Increase B. Remains constant C. Decreases D. Changes exponentially
19	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. 1/4 R B. 4R C. 2R D. Same as R
20	Tolerance of "Gold" band.	A. ±10% B. ±5% C. ±15% D. ±20%