Physics FSC Part 2 Chapter 13 Online MCQ's Test

Sr	Questions	Answers Choice
1	The algebraic sum of potential change in a closed circuit is zero.	A. Kirchhoff's 1st rule B. Kirchhoff 2nd rule C. Krichoff's 3rd rule D. Kirchhoff 4th rule
2	Semiconductor diodes are called:	A. Ohmic B. non ohmic C. Both a & b D. none of above
3	The color code of "Green"	A. 8 B. 3 C. 5 D. 7
4	Kirchhoff's first rule is the manifestation of the law of conservation of.	A. Mass B. Charge C. Energy D. Momentum
5	e.m.f is the conversion of ---------- energy into electrical energy	A. Chemical B. Solar C. Light D. None of these
6	The conventional current is due to the flow of	A. Atoms and molecules B. Positive charge C. Negative charge D. Bot (b) and (c)
7	Heat energy is converted into electrical energy.	A. Solar cells B. thermocouples C. Electric generators D. None of above
8	The drift velocity is of order:	A. 10⁻¹³m/s B. 10³ m/s C. 10⁻³m/s D. 10⁻⁴m/s
9	For ohmic device the graph between V and I is.	A. A straight line B. Curve C. Hyperbola D. Parabola
10	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
11	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
12	In carbon resistors, then value of Blue colour is.	A. 6 B. 7 C. 8 D. 9
13	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

		neat energy
14	Which one of the following bulbs has the least resistance.	A. 100 W B. 200 W C. 500 W D. 1000 W
15	The thermistors convert changes of temperature into.	A. Light energy B. Electric voltage C. Heat D. Sound
16	Heat generated by a 40 W bulb in one hour is.	A. 140 J B. 1440 J C. 14400 J D. 144000 J
17	Magnetic effect of current is used	A. To detect a current B. To measure a current C. In electric motor D. All of above
18	The resistivity of two wires is ρ_1 and ρ_2 which are connected in series. If there dimentions are same then the equivalent resistivity of the combination will be:	A. (ρ₁ + ρ₂) B. 1/ρ₁+ 1/ρ₂ C. ρ₁+ρ₂ /2 D. ρ_{1/} ρ₂
19	Thermistor with high - ve temperature coefficient are very accurate for measuring low temperature especially near is.	A. 10 kelvin B. 70 kelvin C. 200 kelvin D. 35 kelvin
20	Two resistance of 2 Ohm each are connected in parallel combination equivalent resistance will be.	A. 4 Ohm B. 2 Ohm C. 1 Ohm D. 8 Ohm