

## 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	Potentiometer is used to.	A. Compare emf of two cells B. Detect internal resistance of cell C. Measure P.D. D. All of these
3	The algebraic sum of potential change in a closed circuit is zero.	A. Kirchhoff's 1st rule B. Kirchhoff 2 <sup>nd</sup> rule C. Kirchhoff's 3 <sup>rd</sup> rule D. Kirchhoff 4 <sup>th</sup> rule
4	Heat generated by a 40 W bulb in one hour is.	A. 140 J B. 1440 J C. 14400 J D. 144000 J
5	For ohmic device the graph between V and I is.	A. A straight line B. Curve C. Hyperbola D. Parabola
6	In gas the charge carriers are:	A. Electrons B. Ions C. Both a & b D. None of above
7	The unit of temperature co efficient of resistivity is.	A. Ohm -m B. K <sup>-1</sup> C. K D. Ohm
8	Calculate current in 2 2R /4Ω resistor.	A. 1 A B. 2R /4Ω C. R/3Ω D. 2R /3Ω
9	The unit of resistance is:	A. Ω B. Ωm C. Ω <sup>-1</sup> m <sup>-1</sup> D. Ωm <sup>-1</sup>
10	mho -m <sup>-1</sup> is the unit of.	A. Resistance B. Resistivity C. Conductance D. Conductivity
11	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
12	The product of resistance and conductance is	A. 1 B. Resistivity C. Conductance D. Zero
13	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
14	By increasing the temperature of conductor, the flow rate of charges.	A. Increase B. Remains constant C. Decreases D. Changes exponentially
15	Resistance tolerance for gold colour is.	A. 50% B. 30% C. 20% D. 10%

D. 5%

16 The reciprocal of resistance is called.

- A. Capacitance
- B. Resistance
- C. Conductance
- D. Inductance

17 The conventional current is due to the flow of

- A. Atoms and molecules
- B. Positive charge
- C. Negative charge
- D. Bot (b) and (c)

18 Tolerance of "Gold" band.

- A.  $\pm 10\%$
- B.  $\pm 5\%$
- C.  $\pm 15\%$
- D.  $\pm 20\%$

19 The drift velocity is of order:

- A.  $10^{-13}$  m/s
- B.  $10^3$  m/s
- C.  $10^{-3}$  m/s
- D.  $10^{-4}$  m/s

20 Heat energy is converted into electrical energy.

- A. Solar cells
- B. thermocouples
- C. Electric generators
- D. None of above