

## Physics FSC Part 2 Chapter 13 Online MCQ's Test

Sr	Questions	Answers Choice
1	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
2	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. $I= Q-t$
3	The value of maximum output power is?	A. $E/4R$ B. $E^2/4R$ C. $E/4R^2$ D. Non of above
4	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
5	Terminal potential difference is greater than emf of the cell when	A. Circuit is open B. Circuit is closed C. small battery is charged by bigger battery D. None of these
6	Semiconductor diodes are called:	A. Ohmic B. non ohmic C. Both a & b D. none of above
7	Resistance tolerance for gold colour is.	A. 50% B. 30% C. 20% D. 5%
8	In gas the charge carriers are:	A. Electrons B. Ions C. Both a & b D. None of above
9	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
10	The potential difference between the head and tail of an electrical to	A. 600 Volt B. 700 Volt C. 800 Volt D. 900 Volt
11	Heat energy is converted into electrical energy.	A. Solar cells B. thermocouples C. Electric generators D. None of above
12	The product of resistance and conductance is	A. 1 B. Resistivity C. Conductance D. Zero
13	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. $4:3$

14	In carbon resistors, then value of Blue colour is.	A. 6 B. 7 C. 8 D. 9
15	Which one of the following bulbs has the least resistance.	A. 100 W B. 200 W C. 500 W D. 1000 W
16	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
17	the current which flows from a point at higher. potential to point at lower potential is called.	A. Electric current B. Conventional current C. Either of these D. None of above
18	mho $\cdot$ m <sup>-1</sup> is the unit of.	A. Resistance B. Resistivity C. Conductance D. Conductivity
19	Kirchhoff's voltage rule is a way of stating conservation of.	A. Mass B. Charge C. Energy D. Momentum
20	Tolerance of "Gold" band.	A. $\pm 10\%$ B. $\pm 5\%$ C. $\pm 15\%$ D. $\pm 20\%$