

Physics ICS Part 2 Online MCQ's Test

Sr	Questions	Answers Choice
1	When motor is just started, back emf is almost.	A. Maximum B. Zero C. Minimum D. Infinite
2	The effective value of any sinusoidal alternating current or voltage is	D. None of the above
3	SI unit of electric flux is.	A. $\text{NmC}^{\sup>1\sup>}$ B. $\text{Nm}^{\sup>-1\sup>} \text{C}^{\sup>1\sup>}$ C. $\text{Nm}^{\sup>2\sup>} \text{C}^{\sup>-1\sup>}$ D. $\text{Nm}^{\sup>3\sup>} \text{C}^{\sup>2\sup>}$
4	106 electrons are moving through a wire per second the current developed is:	A. $1.6 \times 10^{-19} \text{ A}$ B. 1 A C. $1.6 \times 10^{-13} \text{ A}$ D. 106 A
5	The flow of D.C current is opposed by	A. Resistor B. Induction C. Capacitor D. All of these
6	A metal rod of 1 m is moving at a speed of 1 ms^{-1} in a direction making an angle 30° with 0.5 T magnetic field . The emf produced is.	A. 0.25 N B. 2.5 N C. 0.25 V D. 2.5 V
7	Three resistors of resistance R each are combined in various ways, Which of the following cannot be obtained?	A. $3R\Omega$ B. $2R/4\Omega$ C. $R/3\Omega$ D. $2R/3\Omega$
8	The capacitance of a capacitor depends upon.	A. Thickness of plates B. Charges on the plates C. Voltage applied D. Geometry of the capacitor
9	Calculate current in $2R/4\Omega$ resistor.	A. 1 A B. $2R/4\Omega$ C. $R/3\Omega$ D. $2R/3\Omega$
10	Which diode works at reverse biasing.	A. LED B. Photo voltaic cell C. Photo diode D. Silicon diode
11	The mass of protons is:	A. $1.675 \times 10^{\sup>-27\sup>} \text{ kg}$ B. $1.693 \times 10^{\sup>-27\sup>} \text{ kg}$ C. $1.673 \times 10^{\sup>-31\sup>} \text{ kg}$ D. $1.673 \times 10^{\sup>-27\sup>} \text{ kg}$
12	In LR circuit which one of the following statements is correct?	A. L and R opposes each other B. R value increases with frequency C. The inductive reactance increases with frequency D. The inductive reactance decreases with frequency
13	In full wave rectification number of diodes required are equal to.	A. 2 B. 3 C. 4 D. 5
14	The unit of resistance is:	A. Ω B. Ωm C. $\Omega^{\sup>-1\sup>} \text{m}^{\sup>-1\sup>}$ D. $\Omega \text{m}^{\sup>-1\sup>}$
15	In gas the charge carriers are:	A. Electrons B. Ions C. Both a & b D. None of above

16	Which of the modulus of elasticity is involved in compressing a rod to decrease its length ?	A. Young's modulus B. Bulk modulus C. Modulus of elasticity D. None of these
17	Pulsating output of full wave rectifier can be made smooth by using circuit called.	A. Filter B. Amplifier C. Resistor D. Transistor
18	The unit of impedance is	A. Farad B. Henry C. Tesla D. Ohm
19	A material which is insulator at 0 K and conduct at room temperature is.	A. Silver B. Lead C. Germanium D. Polythene
20	In D.C. generator, split rings act as.	A. Capacitor B. Commutator C. Resistor D. Inductor