

Physics ECAT Pre Engineering Chapter 14 Electromagnetism Online Test

Sr	Questions	Answers Choice
1	Lorentz force is defined as	A. q(E + V x B) B. q(E x B + V) C. q(E x V + B) D. q(E x B)
2	The force acting as one meter length of the conductor placed at right angle to the magnetic field, when one A current is passing through it, defines the	A. magnetic flux B. magnetic induction C. magnetic field D. self inductance
3	The working of galvanometer depends upon torque exerted on a current carrying coil in	A. magnetic field B. electric field C. gravitational field D. nuclear field
4	A current carrying conductor is placed at right angle to the magnetic field. The magnetic force experienced by the conductor is	A. minimum B. maximum C. zero D. none of these
5	The CRO deflects the beam of electrons, when they passes through uniform	A. electric field B. gravitational field C. magnetic flax D. magnetic field
6	The current is measured in	A. volts B. watt C. ampere D. ohm
7	The torque per unit twist of coil is called	A. proportionality constant B. gravitational constant C. boltzman constant D. coupling constant
8	The total number of lines of magnetic induction pasing through a surface perpendicular to the magnetic field is called	A. magnetic flux B. magnetic flux density C. magnetic induction D. magnetic field intensity
9	The force experienced by a single charge carrier moving with velocity 'v' i magnetic field of strength 'B' is given by	A. F =q(v/B) B. F=q ² (v x B) C. F=q(v x B) D. F= vx B
10	The sources of magnetic field are	A. isolated magnetic poles B. charges at rest C. charges in motion D. none of these
11	Resistance is measured in	A. volts B. ampere C. ohm D. watt
12	A galvanometer is an instrument used to	A. measure voltage across a circuit B. detect current in a circuit C. measure current flowing through a circuit D. none of these
13	Centripetal force for electron is given by	A. mv ² / r B. mv / r ² C. mv ² / r D. mr ² / v
14	Tesla is the unit of	A. Magnetic induction or flux density B. Magnetic flux C. Self inductance D. None of these
15	When current passes through a solenoid coil, it behaves like a	A. loop B. circle C. bar magnet

		D. none of these
16	The SI unit of magnetic permeability is	A. WB A ⁻¹ m ⁻¹ B. WB mA ⁻¹ C. WB Am ⁻¹ D. None of these
17	A full-scale deflection is obtained in a galvanometer with a current of few	A. ampere B. volts C. milliampere D. ohm
18	In order to make a voltmeter, high resistance is connected with galvanometer, in	A. perpendicular B. may be paralled or pendicular C. series D. none of these
19	The force experienced by an electron projected in a magnetic field B with a velocity \boldsymbol{V} is given by	A. F=e(V x B) B. F= -e(V x B) C. F= e(B x V) D. Both a and c
20	A magnetic force on an electron travelling with 10^8ms^{-1} parallel to a field of strength 1 Wb m ⁻² is	A. Zero B. 10 ⁵ m C. 10 ⁻¹⁰ N D. 10 ⁸ N