ECAT Physics Chapter 14 Electromagnetism

Sr	Questions	Answers Choice
1	The force experienced by charged particle is maximum, if it moves	A. parallel to magnetic field B. perpendicular to magnetic field C. opposite to the magnetic field D. none of these
2	The unit of magnetic flux is	A. Weber-m² B. Weber-m³ C. Henry D. Weber
3	A current carrying conductor sets up its own:	A. Electric field<o:p></o:p> B. Nuclear field<o:p></o:p> C. Magnetic field<o:p></o:p> D. Both (A) and (C) <o:p></o:p> E. All of these
4	The gavanometer constant of a moving coil galvanometer is given by	A. K=BAN/C B. K=BN/CA C. K=NAC/B D. K=C/BAN
5	The magnetic field in the middle of a solenoid due to current is	A. weak B. strong and uniform C. none-uniform D. zero
6	A shunt resistance parallel to the galvanometer is used to convert it into	A. avometer B. millimeter C. voltmeter D. none of these
7	Galvanometer is a device used for the detection of	A. voltage B. current C. temperature D. pressure
8	For the conversion of galvanometer into voltmeter, we connect a	A. small resistance in series with galvanometer B. small resistance in parallel with galvanometer C. high resistance in parallel with galvanometer D. high resistance series with galvanometer
9	For measuring large currents, an ordinary galvanometer cannot be used without proper, then both relates with each other as	A. modification B. voltage C. current D. resistance
10	Centripetal force for electron is given by	A. mv²/ r B. mv / r² C. mv²/ r D. mr²/ v
		A. <span style="font-size: 12pt;

11	Magnetic induction is also called as:	line-height: 107%; font-family: "Times New Roman", serif;">Ampere's law<o:p></o:p> B. Faraday's law<o:p></o:p> C. Lenz's law<o:p></o:p> D. Newton's law<o:p></o:p> E. Coulomb's law<o:p></o:p>
12	The CRO is used for displaying the waveform of a given	A. current B. voltage C. both of them D. none of them
13	The SI unit of flux density is	A. Newton/Amp-meter B. Newton-m/Ampere C. Newton-m/Amp² D. Newton-Amp/meter
14	The direction of lines of force depends upon the direction of	A. voltage B. current C. charges D. none of these
15	It is customary represent a current flowing towards the reader by a symbol	A. (x) B. (+) C. (.) D. (-) E. (+) <o:p></o:p>
16	Gauss(G) is smaller unit of magnetic induction which is related to tesla(T) as	A. IT = 10⁻⁴G B. IT = 10⁵G C. IT = 10³G D. IT = 10⁴G
17	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
18	In the expression of force experienced by electron, the direction of both v and B are	A. parallel B. zero C. perpendicular D. none of them
19	The field around a moving charge is called	A. magnetic field B. conservative field C. non-conservative field D. none of these
20	A magnetic force on an electron travelling with $10^8 ms^{-1}$ parallel to a field of strength 1 Wb m^{-2} is	A. Zero B. 10⁵m C. 10⁻¹⁰N D. 10⁸N