ECAT Pre General Science Physics Chapter 14 Electromagnetism

Sr	Questions	Answers Choice
1	Resistance is measured in	A. volts B. ampere C. ohm D. watt
2	Magnetic flux passing through the an element of are A placed perpendicular to a uniform magnetic field Bis:	A. Maximum B. Minimum C. Zero D. Very small E. None of these
3	The force exerted on a conductor of length L, carrying current I when placed in a magnetic field B is given by	A. F=IB/L B. F= L x B/I C. F = IL x B D. F = IL . B
4	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
5	The angle of deflection of coil can be measured by the	A. one method B. three method C. two method D. none of these
6	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
7	A relationship between Gauses of magnetic induction and Tesla(T) is given by	A. G 10⁻³T B. G = 10⁻²T C. G = 10⁻⁴T D. G = 10⁻¹T
8	The voltage increases linearly with	A. time B. velocity C. acceleration D. torque
9	The straight current carrying conductor experiences maximum force in a uniform magnetic field when it is placed	A. parallel to the field B. Perpendicular to the field C. At an angle of 45 to the field D. None of the above
10	Magnetic induction is also called as:	A. 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>

11	Ammeter is used to measure	A. voltage B. resistance C. voltage and current D. current
12	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
13	When the waveform of one voltage is increasing and that of second is decreasing and vice versa, then phase difference between these voltage is	A. 90° B. 75° C. 0° D. 180°
14	When a suitable small resistance is put in parallel with the galvanometer coil, it is converted into	A. Voltmeter B. Avometer C. Ammeter D. None of these
15	A charged particle moving at right angle to the magnetic field will experience	A. minimum force B. maximum force C. zero D. moderate force
16	Weber is a unit of	A. magnetic flux B. magnetic filed intensity C. magnetic induction D. magnetic flux density
17	Which one of the following relations is correct?	A. 1 Wb-m²= Nm⁻¹A⁻¹ B. 1 tesla = 104 gausses C. 1 Wb-m²= 1 tesla D. All of the above
18	The field around a moving charge is called	A. magnetic field B. conservative field C. non-conservative field D. none of these
19	The current is measured in	A. volts B. watt C. ampere D. ohm
20	Magnetic lines of force:	A. Cannot intersect at all<o:p></o:p> B. Intersect at infinity<o:p></o:p> C. Intersect within magnet<o:p></o:p> D. Intersect at Neutral Point<o:p></o:p> E. None of these