

Physics ICS Part 1 Chapter 10 Online Test

Sr	Questions	Answers Choice
1	A moving charged particle is surrounded by	<p>A. <p>Electric field only</p></p> <p>B. <p>Magnetic field only</p></p> <p>C. <p>Both electric and magnetic field</p></p> <p>D. <p>No field</p></p>
2	The SI unit of magnetic induction or flux density is.	<p>A. <p>Tesla</p></p> <p>B. <p>Gauss</p></p> <p>C. <p>Ampere</p></p> <p>D. <p>Weber</p></p>
3	If the current passing through a wire in a magnetic field is doubled, the magnetic force would become.	<p>A. <p>Twice</p></p> <p>B. <p>Six times</p></p> <p>C. <p>Five times</p></p> <p>D. <p>Four times</p></p>
4	The unit $\text{NA}^{-1} \text{m}^{-1}$ is called	<p>A. <p>Weber</p></p> <p>B. <p>Tesla</p></p> <p>C. <p>Coulomb</p></p> <p>D. <p>None of these</p></p>
5	Electrons while moving perpendicularly through a uniform magnetic field are.	<p>A. <p>Deflected towards north pole</p></p> <p>B. <p>Deflected towards south pole</p></p> <p>C. <p>Deflected along circular path</p></p> <p>D. <p>Not deflected at all</p></p>
6	The direction of induced current is always so as to oppose the change. Which causes the current, This is the statement of.	<p>A. <p>Lenz's law</p></p> <p>B. <p>Faraday's law</p></p> <p>C. <p>Gauss's law</p></p> <p>D. <p>Joule's law</p></p>
7	The unit of flux density is.	<p>A. <p>$\text{NA}^{-1} \text{m}^{-1}$</p></p> <p>B. <p>$\text{NA m}^{-1}$</p></p> <p>C. <p>$\text{N m A}^{-2}$</p></p> <p>D. <p>$\text{Nm A}$</p></p>
8	Magnetic field is detected by	<p>A. <p>Ammeter</p></p> <p>B. <p>Galvanometer</p></p> <p>C. <p>Magnetic compass</p></p> <p>D. <p>Avometer</p></p>
9	What is the value of the current in a wire of 10 cm long of the right angle to a uniform magnetic field of 0.5 T when the force acting on the wire is 5 N ?	<p>A. <p>1 A</p></p> <p>B. <p>100 A</p></p> <p>C. <p>10 A</p></p> <p>D. <p>1000 A</p></p>
10	Two free parallel straight wires carrying currents in the opposite direction	<p>A. <p>Do not affect each other</p></p> <p>B. <p>Repel each other</p></p> <p>C. <p>Attract each other</p></p> <p>D. <p>Get rotated</p></p>
11	The force exerted on a wire of 1 meter length carrying 1 ampere current placed at right angle to the magnetic field is called.	<p>A. <p>Magnetic field intensity</p></p> <p>B. <p>Magnetic Induction</p></p> <p>C. <p>Magnetic flux</p></p> <p>D. <p>None of these</p></p>
12	Production of induced emf in a coil is linked with.	<p>A. <p>Nature of coil</p></p> <p>B. <p>Shape of coil</p></p> <p>C. <p>Flux through coil</p></p> <p>D. <p>Change in flux through coil</p></p>
13	Lenz's law is consistent with	<p>A. <p>Law of conservation of energy</p></p> <p>B. <p>Law of conservation of charge</p></p> <p>C. <p>Law of conservation of momentum</p></p> <p>D. <p>Law of conservation of mass</p></p>

14	The radius of curvature of the path of a charged particle in a uniform magnetic field is directly proportional to	<p>A. The particle's charge</p> <p>B. The particle's momentum</p> <p>C. The particle's energy</p> <p>D. The flux density of the field</p>
15	The SI Unit of magnetic flux is.	<p>A. Weber</p> <p>B. N m^{-1}</p> <p>C. N m A^{-1}</p> <p>D. Both a and c</p>
16	Two free parallel straight wires carrying current in the same direction	<p>A. Attract each other</p> <p>B. Repel each other</p> <p>C. Do not affect each other</p> <p>D. Get rotated</p>
17	Total number of magnetic lines of force passing normally through unit area is called.	<p>A. Flux density</p> <p>B. Magnetism</p> <p>C. Flux</p> <p>D. Magnetic flux</p>
18	A 0.50 T field over an area of 2 m ² which lies at an angle of 60 degree to the field, then the magnetic flux is.	<p>A. 0.50 weber</p> <p>B. 0.866 weber</p> <p>C. 0.75 weber</p> <p>D. 4 weber</p>
19	When a charged particle is projected perpendicular to uniform magnetic field, its trajectory is.	<p>A. A circle</p> <p>B. Ellipse</p> <p>C. A helix</p> <p>D. Straight line</p>
20	The number of magnetic lines of force passing through any surface is known as.	<p>A. Magnetism</p> <p>B. Electric flux</p> <p>C. Magnetic flux</p> <p>D. Flux density</p>