

Physics ICS Part 1 Chapter 10 Online Test

Sr	Questions	Answers Choice
1	When a charged particle is projected perpendicular to uniform magnetic field, its trajectory is.	<p>A. <input type="radio"/> A circle</p> <p>B. <input type="radio"/> Ellipse</p> <p>C. <input type="radio"/> A helix</p> <p>D. <input type="radio"/> Straight line</p>
2	Magnetic field is detected by	<p>A. <input type="radio"/> Ammeter</p> <p>B. <input type="radio"/> Galvanometer</p> <p>C. <input checked="" type="radio"/> Magnetic compass</p> <p>D. <input type="radio"/> Avometer</p>
3	A changing magnetic field produces	<p>A. <input checked="" type="radio"/> Electric current</p> <p>B. <input type="radio"/> Changing electric field</p> <p>C. <input type="radio"/> Magnetic field</p> <p>D. <input type="radio"/> Conservative field</p>
4	The direction of induced current is always so as to oppose the change. Which causes the current, This is the statement of.	<p>A. <input checked="" type="radio"/> Lenz's law</p> <p>B. <input type="radio"/> Faraday's law</p> <p>C. <input type="radio"/> Gauss's law</p> <p>D. <input type="radio"/> Joule's law</p>
5	Electrons while moving perpendicularly through a uniform magnetic field are.	<p>A. <input type="radio"/> Deflected towards north pole</p> <p>B. <input type="radio"/> Deflected towards south pole</p> <p>C. <input checked="" type="radio"/> Deflected along circular path</p> <p>D. <input type="radio"/> Not deflected at all</p>
6	A 0.50 T field over an area of 2 m ² which lies at angle of 60 degree to the field, then the magnetic flux is.	<p>A. <input type="radio"/> 0.50 weber</p> <p>B. <input checked="" type="radio"/> 0.866 weber</p> <p>C. <input type="radio"/> 0.75 weber</p> <p>D. <input type="radio"/> 4 weber</p>
7	Lenz's law is consistent with	<p>A. <input checked="" type="radio"/> Law of conservation of energy</p> <p>B. <input type="radio"/> Law of conservation of charge</p> <p>C. <input type="radio"/> Law of conservation of momentum</p> <p>D. <input type="radio"/> Law of conservation of mass</p>
8	The e.m.f. produced in the conductor when it moves across a magnetic field is called.	<p>A. <input type="radio"/> Self emf</p> <p>B. <input checked="" type="radio"/> Motional emf</p> <p>C. <input type="radio"/> Mutual emf</p> <p>D. <input type="radio"/> Induced emf</p>
9	A magnetic compass will be deflected if it is kept near a	<p>A. <input checked="" type="radio"/> Charge & of motion</p> <p>B. <input type="radio"/> Charge at rest</p> <p>C. <input type="radio"/> Both a and b</p> <p>D. <input type="radio"/> None</p>
10	The number of magnetic lines of force passing through any surface is known as.	<p>A. <input type="radio"/> Magnetism</p> <p>B. <input type="radio"/> Electric flux</p> <p>C. <input checked="" type="radio"/> Magnetic flux</p> <p>D. <input type="radio"/> Flux density</p>
11	The current produced when the conductor moves across a magnetic field is called	<p>A. <input type="radio"/> Electric potential</p> <p>B. <input type="radio"/> Electrostatic induction</p> <p>C. <input checked="" type="radio"/> Electromagnetic induction</p> <p>D. <input type="radio"/> Electric polarization</p>
12	One of the following quantities that is not affected by the magnetic field is	<p>A. <input checked="" type="radio"/> Moving charge</p> <p>B. <input type="radio"/> Change in magnetic flux</p> <p>C. <input type="radio"/> Current flowing in conductor</p> <p>D. <input type="radio"/> Stationary charge</p>
13	What is the value of the current in a wire of 10 cm long of the right angle to a uniform	<p>A. <input type="radio"/> 1 A</p> <p>B. <input checked="" type="radio"/> 100 A</p>

	magnetic field of 0.5 T when the force acting on the wire is 5 N ?	<p>C. $<p>10\text{ A}</p>$</p> <p>D. $<p>1000\text{ A}</p>$</p>
14	The SI unit of magnetic induction or flux density is.	<p>A. $<p>\text{Tesla}</p>$</p> <p>B. $<p>\text{Gauss}</p>$</p> <p>C. $<p>\text{Ampere}</p>$</p> <p>D. $<p>\text{Weber}</p>$</p>
15	The fact that emf produced by motion of a coil across a magnetic field was discovered by	<p>A. $<p>\text{Michael Faraday}</p>$</p> <p>B. $<p>\text{Henry}</p>$</p> <p>C. $<p>\text{Orested}</p>$</p> <p>D. $<p>\text{Both a and b}</p>$</p>
16	Production of induced emf in a coil is linked with.	<p>A. $<p>\text{Nature of coil}</p>$</p> <p>B. $<p>\text{Shape of coil}</p>$</p> <p>C. $<p>\text{Flux through coil}</p>$</p> <p>D. $<p>\text{Change in flux through coil}</p>$</p>
17	The value of the induced emf is directly proportional to the rate of change of.	<p>A. $<p>\text{Magnetic flux}</p>$</p> <p>B. $<p>\text{Electric flux}</p>$</p> <p>C. $<p>\text{Force}</p>$</p> <p>D. $<p>\text{Work}</p>$</p>
18	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. $<p>\text{Magnetic field intensity}</p>$</p> <p>B. $<p>\text{Magnetic Induction}</p>$</p> <p>C. $<p>\text{Magnetic flux}</p>$</p> <p>D. $<p>\text{None of these}</p>$</p>
19	What is induced when there is a relative motion between coil and the magnet.	<p>A. $<p>\text{Potential}</p>$</p> <p>B. $<p>\text{emf}</p>$</p> <p>C. $<p>\text{Flux}</p>$</p> <p>D. $<p>\text{Energy}</p>$</p>
20	Two free parallel straight wires carrying current in the same direction	<p>A. $<p>\text{Attract each other}</p>$</p> <p>B. $<p>\text{Repel each other}</p>$</p> <p>C. $<p>\text{Do not affect each other}</p>$</p> <p>D. $<p>\text{Get rotated}</p>$</p>