

Physics ICS Part 1 Chapter 10 Online Test

Sr	Questions	Answers Choice
1	One of the following quantities that is not affected by the magnetic field is	<p>A. Moving charge</p> <p>B. Change in magnetic flux</p> <p>C. Current flowing in conductor</p> <p>D. Stationary charge</p>
2	A 0.50 T field over an area of 2 m ² which lies at an angle of 60 degrees 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>
3	The fact that emf produced by motion of a coil across a magnetic field was discovered by	<p>A. Michael Faraday</p> <p>B. Henry</p> <p>C. Oersted</p> <p>D. Both a and b</p>
4	The SI unit of magnetic induction or flux density is.	<p>A. Tesla</p> <p>B. Gauss</p> <p>C. Ampere</p> <p>D. Weber</p>
5	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>
6	The unit of flux density is.	<p>A. NA⁻¹ m⁻¹</p> <p>B. NA m⁻¹</p> <p>C. N m A⁻²</p> <p>D. Nm A</p>
7	The value of the induced emf is directly proportional to the rate of change of.	<p>A. Magnetic flux</p> <p>B. Electric flux</p> <p>C. Force</p> <p>D. Work</p>
8	The e.m.f. produced in the conductor when it moves across a magnetic field is called.	<p>A. Self emf</p> <p>B. Motional emf</p> <p>C. Mutual emf</p> <p>D. Induced emf</p>
9	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>
10	A moving charged particle is surrounded by	<p>A. Electric field only</p> <p>B. Magnetic field only</p> <p>C. Both electric and magnetic field</p> <p>D. No field</p>
11	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>
12	Lenz's law deals with the.	<p>A. Magnitude of induced current</p> <p>B. Magnitude of induced emf</p> <p>C. Direction of induced emf</p> <p>D. Direction of induced current</p>
13	Electrons while moving perpendicularly through a uniform magnetic field are.	<p>A. Deflected towards north pole</p> <p>B. Deflected towards south pole</p> <p>C. Deflected along circular path</p> <p>D. Not deflected at all</p>
		<p>A. Parallel to the wire</p>

14	If electric current flows from top towards the bottom through a wire then the direction of lines of force would be .	<p>B. <input type="radio"/> Perpendicular to the wire</p> <p>C. <input checked="" type="radio"/> Clockwise around the wire</p> <p>D. <input type="radio"/> Anticlockwise around the wire</p>
15	Two free parallel straight wires carrying currents in the opposite direction	<p>A. <input type="radio"/> Do not affect each other</p> <p>B. <input checked="" type="radio"/> Repel each other</p> <p>C. <input type="radio"/> Attract each other</p> <p>D. <input type="radio"/> Get rotated</p>
16	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>
17	What is induced when there is a relative motion between coil and the magnet.	<p>A. <input type="radio"/> Potential</p> <p>B. <input checked="" type="radio"/> emf</p> <p>C. <input type="radio"/> Flux</p> <p>D. <input type="radio"/> Energy</p>
18	The work done by a magnetic field for revolving the charged particle q in a circular path will be.	<p>A. <input type="radio"/> Fd</p> <p>B. <input type="radio"/> Max</p> <p>C. <input type="radio"/> Negative</p> <p>D. <input checked="" type="radio"/> Zero</p>
19	If a current is passing through a wire, the magnetic lines of force are.	<p>A. <input checked="" type="radio"/> Concentric circles</p> <p>B. <input type="radio"/> Parallel to the wire</p> <p>C. <input type="radio"/> Perpendicular to the wire</p> <p>D. <input type="radio"/> Inclined to the wire</p>
20	The direction of line of magnetic force can be found by	<p>A. <input checked="" type="radio"/> Right hand rule</p> <p>B. <input type="radio"/> Left hand rule</p> <p>C. <input type="radio"/> Hund's rule</p> <p>D. <input type="radio"/> Left and right hand rules</p>