

Physics ICS Part 1 Chapter 10 Online Test

Sr	Questions	Answers Choice
1	The value of the induced emf is directly proportional to the rate of change of.	<p>A. <p>Magnetic flux</p> B. <p>Electric flux</p> C. <p>Force</p> D. <p>Work</p></p>
2	What is induced when there is a relative motion between coil and the magnet.	<p>A. <p>Potential&nbsp;</p> B. <p>emf</p> C. <p>Flux</p> D. <p>Energy</p></p>
3	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. <p>0.50 weber</p> B. <p>0.866 weber</p> C. <p>0.75 weber</p> D. <p>4 weber</p></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. <p>Lenz's law</p> B. <p>Faraday's law</p> C. <p>Gauss's law</p> D. <p>Joule's law</p></p>
5	Lenz's law is consistent with	<p>A. <p>Law of conservation of energy</p> B. <p>Law of conservation of charge</p> C. <p>Law of conservation of momentum</p> D. <p>Law of conservation of mass</p></p>
6	If the current passing through a wire in a magnetic field is doubled, the magnetic force would become.	<p>A. <p>Twice</p> B. <p>Six times</p> C. <p>Five times</p> D. <p>Four times</p></p>
7	Electrons while moving perpendicularly through a uniform magnetic field are.	<p>A. <p>Deflected towards north pole</p> B. <p>Deflected towards south pole</p> C. <p>Deflected along circular path</p> D. <p>Not deflected at all</p></p>
8	A moving charged particle is surrounded by	<p>A. <p>Electric field only</p> B. <p>Magnetic field only</p> C. <p>Both electric and magnetic field</p> D. <p>No field</p></p>
9	A current is flowing towards north along a power line. The direction of the magnetic field over the wire is directed towards.	<p>A. <p>East</p> B. <p>South</p> C. <p>West</p> D. <p>North</p></p>
10	The unit of flux density is.	<p>A. <p>NA⁻¹ m⁻¹</p> B. <p>NA m⁻¹</p> C. <p>N m A⁻²</p> D. <p>Nm A</p></p>
11	One of the following quantities that is not affected by the magnetic field is	<p>A. <p>Moving charge</p> B. <p>Change in magnetic flux</p> C. <p>Current flowing in conductor</p> D. <p>Stationary charge</p></p>
12	Total number of magnetic lines of force passing normally through unit area is called.	<p>A. <p>Flux density</p> B. <p>Magnetism</p> C. <p>Flux</p> D. <p>Magnetic flux</p></p>
13	If a current is passing through a wire, the magnetic lines of force are.	<p>A. <p>Concentric circles</p> B. <p>Parallel to the wire</p> C. <p>Perpendicular to the wire</p> D. <p>Inclined to the wire</p></p>

14	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>
15	Production of induced emf in a coil is linked with.	<p>A. Nature of coil</p> <p>B. Shape of coil</p> <p>C. Flux through coil</p> <p>D. Change in flux through coil</p>
16	The work done by a magnetic field for revolving the charged particle q in a circular path will be.	<p>A. Fd</p> <p>B. qV</p> <p>C. qV</p> <p>D. Zero</p>
17	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. 1 A</p> <p>B. 100 A</p> <p>C. 10 A</p> <p>D. 1000 A</p>
18	Magnetic field is detected by	<p>A. Ammeter</p> <p>B. Galvanometer</p> <p>C. Magnetic compass</p> <p>D. Avometer</p>
19	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>
20	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>