

ECAT Pre General Science Physics Chapter 15 Electromagnetic Induction

Sr	Questions	Answers Choice
1	In magnet-coil experiment, emf can be produced by	A. Keeping the coil stationary and moving the magnet B. Keeping the magnet stationary and moving C. Relative motion of the loop and magnet D. Any one of above E. All above
2	An induced current can be produced by:	A. Constant magnetic field B. Changing magnetic field C. Varying magnetic field D. Constant electric field E. None of these
3	Referring to above figure, current in the coil P grows from zero to its maximum value	A. At the instant the switch is closed B. At the instant the switch is opened C. When switch is kept open D. All of above E. Neither of above
4	The law of electromagnetic induction is related to:	A. Coulomb B. Ampere C. Faraday D. Lenz E. None of these
5	The phenomenon of generation of induced emf is called:	A. Electrostatic induced B. Magnetic induced C. Electromagnetic induced D. Electric induced E. Both A and C
6	When the conductor moved across a magnetic field:	A. Emf induced is similar to that of a battery B. Emf induced gives rise to induced current C. An emf induced across its ends D. All are correct E. None of these
7	The product of induced current and the resistance of the wire through which the current is passing is called:	A. Electromagnetic induction B. induced emf C. Induced current D. Self induced E. None of these

8	Eddy current is produced when:	<p>A. A metal is kept in varying magnetic field</p> <p>B. A metal is kept in steady magnetic field</p> <p>C. A circular coil is placed in a steady magnetic field</p> <p>D. A current is passed through a circular coil</p>
9	Which of the following is most suitable as the core of transformer	<p>A. Soft iron</p> <p>B. Alnico</p> <p>C. Steel</p> <p>D. None of these</p>
10	A.C. can be measure with the help of	<p>A. Nuclear effect</p> <p>B. Magnetic effect</p> <p>C. Chemical effect</p> <p>D. Heating effect</p>
11	When there is no relative motion between the magnet and coil, the galvanometer indicates:	<p>A. No current in circuit</p> <p>B. An increasing current</p> <p>C. A decreasing current</p> <p>D. Either B or C</p>
12	Plan of a coil makes an angle of 20° with the lines of magnetic field. The angle between B and vector area of plane of coil is:	<p>A. Also 20°</p> <p>B. 70°</p> <p>C. 90°</p> <p>D. 180°</p> <p>E. None of these</p>
13	In a coil current change from 2 to 4 A in .05 s. If the average induced emf is 8V then coefficient of self-inductance is:	<p>A. 0.2 henry</p> <p>B. 0.1 henry</p> <p>C. 0.8 henry</p> <p>D. 0.04 henry</p>
14	Motional emf is called motional:	<p>A. Electromagnetic force and is measured in newtons</p> <p>B. Electromotive force and is measured in volt</p> <p>C. Electromotive force and is measured in newtons</p> <p>D. Electromagnetic force and is measured in volts</p> <p>E. None of these</p>
15	The current produced by moving a loop of wire across a magnetic field is called	<p>A. Direct current</p> <p>B. Magnetic current</p> <p>C. Alternating current</p> <p>D. Induced current</p> <p>E. None of these</p>
16		<p>A. Electrostatic induction</p> <p>B. Magnetic induction</p>

16	The phenomenon of generation of induced emf is called	<p>C. Electromagnetic induction</p> <p>D. Electric induction</p> <p>E. Both (A) and (D)</p>
17	For inducing emf in a coil the basic requirement is that:	<p>A. Flux should link the coil</p> <p>B. Change in flux should link the coil</p> <p>C. Coil should form a closed loop</p> <p>D. Both B and C are true</p>
18	Split rings act as	<p>A. Vibrator</p> <p>B. Resistor</p> <p>C. Motor</p> <p>D. Commutator</p>
19	When a conductor is moved across a magnetic field:	<p>A. Emf induced is similar to that of a battery</p> <p>B. Emf induced gives rise to induced current</p> <p>C. An emf is induced across its ends</p> <p>D. All are correct</p> <p>E. None of these</p>
20	When there is no relative motion between the magnet and coil, the galvanometer indicates	<p>A. No current in the circuit</p> <p>B. An increasing current</p> <p>C. A decreasing current</p> <p>D. A constant current</p> <p>E. Either B or C</p>