

ECAT Pre General Science Physics Chapter 15 Electromagnetic Induction

Sr	Questions	Answers Choice
1	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>
2	A coil of constant area is placed in a constant magnetic field. An induced current is produced in the coil when:	<p>A. The coil is destroyed</p> <p>B. The coil is Rotated</p> <p>C. The coil is neither destroyed nor rotated</p> <p>D. Both (A) and (B)</p> <p>E. None of these</p>
3	Transformer is used to	<p>A. Increase alternating current</p> <p>B. Increase d.c voltage</p> <p>C. Increase & Decrease emf</p> <p>D. All answers are right</p>
4	Micheal Faraday and Joseph Henry belong respectively to:	<p>A. USA and England</p> <p>B. England and France</p> <p>C. England and USA</p> <p>D. USA and France</p> <p>E. None of these</p>
5	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>
6	In magnet-coil experiment, emf can be produced by:	<p>A. Keeping the coil stationary and moving the magnet</p> <p>B. Keeping the magnet stationary and moving the coil</p> <p>C. Relative motion of the loop and magnet</p> <p>D. Any one of above</p> <p>E. All above</p>
7	Lenz's law is the consequence of	<p>A. Mass</p> <p>B. Energy conservation</p> <p>C. Momentum conservation</p> <p>D. Charge</p>
8	The SI unit of magnetic induction is	<p>A. Weber</p> <p>B. Weber/meter</p> <p>C. Henry</p> <p>D. Tesla</p>
9	The device in which induced emf is statically induced emf is:	<p>A. Transformer</p> <p>B. AC generator</p> <p>C. Alternator</p> <p>D. Dynamo</p>
10	The direction of induced current is always so as to oppose the cause which produces it. This is	<p>A. Lenz's law</p> <p>B. Ampere's law</p> <p>C. Faraday's law</p> <p>D. Coulomb's law</p> <p>E. None of these</p>
11	The practical application of the phenomenon of Mutual induction is	<p>A. Transformers</p> <p>B. Generator</p> <p>C. Motor</p> <p>D. All of these</p>

A. A.

12	An induced current can be produced by:	<p>initial; background-clip: initial;"/>Constant magnetic field B. Changing magnetic field C. Varying magnetic field D. Constant electric field E. None of these</p>
13	Referring to above figure, current in the coil P grows from zero to its maximum value	<p>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</p>
14	The induced current in a conductor depends upon:	<p>A. Resistance of the loop B. Speed with which the conductor moves C. Any of these D. Both A and B E. None of these</p>
15	Which of the following is most suitable as the core of transformer	<p>A. Soft iron B. Alinco C. Steel D. None of these</p>
16	An emf is set up in a conductor when it:	<p>A. Is kept in a magnetic field B. Is kept in an electric field C. Moves across a magnetic field D. Both A and B E. None of these</p>
17	Split rings act as	<p>A. Vibrator B. Resistor C. Motor D. Commulator</p>
18	The motional e.m.f depends upon the	<p>A. Length of a conductor B. Strength of a magnet C. Speed of the conductor D. All of the above</p>
19	The law of electromagnetic induction is related to:	<p>A. Coulomb B. Ampere C. Faraday D. Lenz E. None of these</p>
20	An induced current can be produced by:	<p>A. Constant magnetic field B. Changing magnetic field C. Varying magnetic field D. Constant electric field E. None of these</p>