

ECAT Physics Chapter 15 Electromagnetic Induction

Sr	Questions	Answers Choice
1	The rate change of area expressed is expressed in:	A. None of these B. ms^{-1} C. m^2/s^2 D. ms^{-2} E. m^2/s
2	The current produced by moving a loop of a wire across a magnetic field is called:	A. Direct current B. Magnetic current C. Alternating current D. Induced current E. None of these
3	Faraday's law of electromagnetic induction has been used in the construction of:	A. Galvanometer B. Voltmeter C. Electric motor D. Electric generator E. Commutator
4	Lenz's law deals with the	A. Magnitude of induced current B. Magnitude of induced e.m.f C. Direction of induced e.m.f D. Direction of induced current
5	The ratio of average e.m.f in the coil to the time rate of change of current in the same coil is called	A. Mutual induction B. Mutual inductance C. Capacitance D. Self inductance
6	Back emf is produced due to	A. Self induction B. Mutual induction C. A.C D. Lenz's law
7	The induced current in the loop can be increased by	A. Using a stronger magnetic field B. Moving the loop faster C. Replacing the loop by a coil of many turns D. All above E. Both A and B
8	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
9	The device in which induced emf is statically induced emf is:	A. Transformer B. AC generator C. Alternator D. Dynamo
10	The phenomenon of generation of induced emf is called	A. Electrostatic induction B. Magnetic induction C. Electromagnetic induction D. Electric induction E. Both (A) and (D)
		A. Constant magnetic field B. Changing magnetic field C. Constant magnetic field

11	An induced current can be produced by:	<p>C. Varying magnetic field</p> <p>D. Constant electric field</p> <p>E. None of these</p>
12	The magnitude of induced emf depends upon the:	<p>A. Rate of decrease of magnetic field</p> <p>B. Rate of change of magnetic field</p> <p>C. Rate of increase of magnetic flux</p> <p>D. Constancy of magnetic field</p> <p>E. None of these</p>
13	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>
14	An induced current can be produced by:	<p>A. Constant magnetic field</p> <p>B. Changing magnetic field</p> <p>C. Varying magnetic feild</p> <p>D. Constant electric field</p> <p>E. None of these</p>
15	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>
16	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>
17	When the conductor 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 induced across its ends</p> <p>D. All are correct</p> <p>E. None of these</p>

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18	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
19	A.C. can be measure with the help of	A. Nuclear effect B. Magnetic effect C. Chemical effect D. Heating effect
20	The induced current in a conductor depends upon	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