

ECAT Physics Chapter 15 Electromagnetic Induction

Sr	Questions	Answers Choice
1	The direction of induced current is always so as to oppose the cause which produces it. This is	<p>A. Lenz's law B. Ampere's law C. Faraday's law D. Coulomb's law E. None of these</p>
2	The current produced by moving a loop of wire across a magnetic field is called	<p>A. Direct current B. Magnetic current C. Alternating current D. Induced current E. None of these</p>
3	Which of the following quantities remain constant in step up transformer?	<p>A. Current B. Voltage C. Power D. Heat</p>
4	The device in which induced emf is statically induced emf is:	<p>A. Transformer B. AC generator C. Alternator D. Dynamo</p>
5	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>
6	Step up transformer has a transformation ratio of 3:2. What is the voltage in secondary, if voltage in primary is 30V:	<p>A. 45 V B. 15 V C. 90 V D. 300 V</p>

7	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 distorted B. The coil is rotated C. The coil is neither distorted nor rotated D. Both A and B E. None of these</p>
8	The SI unit of magnetic induction is	<p>A. Weber B. Weber/meter C. Henry D. Tesla</p>
9	When there is no relative motion between the magnet and coil, the galvanometer indicated	<p>A. No current in the circuit B. An increasing current C. A decreasing current D. A constant current E. Either B or C</p>
10	A device which converts Electrical energy into mechanical energy is called as	<p>A. Transformer B. Generator C. Motor D. All of these</p>
11	Referring to above figure, due to change in current in the coil P, the change in magnetic flux	<p>A. Is associated with coil P B. Is associated with coil S C. Causes and induced current in coil S D. All of these E. None of these</p>
12	Motional emf is called motional:	<p>A. Electromagnetic force and is measured in newtons B. Electromotive force and is measured in volt C. Electromotive force and is measured in newtons D. Electromagnetic force and is measured in volts E. None of these</p>
13	An emf is set up in a conductor when it:	<p>A. is kept in a magnetic field B. is kept in a electric field C. Move across a magnetic field D. Both (A) and (B) E. None of these</p>
14	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>
15	When a conductor is moved across a magnetic field:	<p>A. Emf induced its similar to that of a battery B. Emf induced gives rise to induced current C. An emf is induced across its ends D. All are correct E. None of these</p>
16	Lens's law deals with the	<p>A. Magnitude of induced current B. Magnitude of induced e.m.f C. Direction of induced e.m.f D. Direction of induced current</p>
17	The induced current in the loop can be increased by:	<p>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)</p>
18	A.C. can be measure with the help of	<p>A. Nuclear effect B. Magnetic effect C. Chemical effect D. Heating effect</p>
19	Instead of moving the coil towards a magnet, the magnet is moved towards the coil with the same speed. The galvanometer shows current:	<p>A. Of same magnitude in the same direction B. Of different magnitude in the same direction C. Of same magnitude but in opposite direction D. Of different magnitude in the opposite direction E. None of these</p>
20		<p>A. At the instant the switch is closed B. At the instant the switch is opened</p>

Referring to above figure, current in coil P falls from its maximum value to zero:

- C. When switch is kept open
 - D. When switch is kept closed
 - E. None of these
-