

## ECAT Pre General Science Physics Chapter 15 Electromagnetic Induction

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Sr	Questions	Answers Choice
1	Transformer is used to	A. Increase alternating current     B. Increase d.c voltage     C. Increase & D. All answers are right
2	Lenz's law is the consequence of	A. Mass B. Energy conservation C. Momentum conservation D. Charge
3	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:	A. 0.2 henry B. 0.1 henry C. 0.8 henry D. 0.04 henry
4	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:	A. Also 20 <span style='font-family: " Times New Roman", serif; font-size: 12pt; text-align: justify;'>°</span> <span style='font-size:12.0pt; line-height:107%;font-family: " Times New Roman", " serif"'><o:p></o:p></span> B. 70 <span style='font-family: " Times New Roman" text-align: justify;'>°</span> ° <span style='font-size:12.0pt; line-height:107%;font-family: " Times New Roman", " serif"'><o:p></o:p></span> C. 90 <span style='font-family: " Times New Roman", serif; font-size: 12pt; text-align: justify;'>°</span> class="MsoNormal" style="text-align:justify;">span style="font-size:12.0pt; line-height:107%;font-family: " Times New Roman", " serif""> <o:p></o:p> D. 180 <span style='font-family: " Times New Roman", " serif"'><o:p></o:p></span> D. 180 <span style='font-family: " Times New Roman", " serif" serif, font-size: 12pt; text-align: justify;'>°</span> Class="MsoNormal" style="text-align: justify;">° Class="MsoNormal" style="text-align: justify;">°< Class="MsoNormal" style="text-align: justify;">°< Class="MsoNormal" style="text-align: just
5	When a conductor moved with its length parallel to the lines of magnetic fled:	A. An emf is induced across its ends B. Emf induced is similar to that of a battery C. Emf passes through the conductor D. Both A and B E. None of these
6	The current produced by moving a loop of wire across a magnetic field is called:	A. Direct current     B. Magnetic current     C. Alternating current     D. Induced current     E. None of these
7	The unit of induced emf is:	A. Volt B. Nm/As C. Joule coul <sup>-1</sup> D. Both A and C E. All of these

8	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
9	When a conductor is moved across a magnetic field, the redistribution of charge sets up:	A. Magnetic field B. Electrostatic field C. Electromagnetic field D. All of these E. None of these
10	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
11	The induced current is 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
12	Which of the following quantities remain constant in step up transformer?	A. Current B. Voltage C. Power D. Heat
13	A coil of constant area is placed in a constant magnetic field. An include current is produced in the coil when:	A. The coil is destroyed B. The coil is Rotated C. The coil is neither destroyed nor rotated D. Both (A) and (B) E. None of these
14	The current produced by moving a loop of wire across a magnetic field is called	A. Direct current     B. Magnetic current     C. Alternating current     D. Induced current     E. None of these
15	Referring to above figure, current in coil P falls from its maximum value to zero	A. At the instant the switch is closed B. At the instant the switch is opened C. When switch is kept open D. When switch is kept closed E. None of these
16	A square loop of wire is moving through a uniform magnetic field. The normal to the loop is oriented parallel to the magnetic field. The emf induced in the loop is:	A. Zero B. Of smaller magnitude C. Of larger magnitude D. Sometimes B, sometimes C E. Neither of these
17	A coil of constant area is placed in a constant magnetic field. An induced current is produced in the coil when	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
18	The magnitude of induced emf depends upon the:	A. Rate of decrease of magnetic field B. Rate of change of magnetic field C. Rate of increase of magnetic flux D. Constancy of magnetic field E. None of these
19	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 the coil C. Relative motion of the loop and magnet D. Any one of above E. All above
		A. Self induction B. Mutual induction