

Physics FSC Part 2 Chapter 15 Online MCQ's Test

Sr	Questions	Answers Choice
1	The negative sign with induced emf in Faraday's law is in accordance with	A. Lenz's law B. Amperes law C. Boyle's law D. Gauss law
2	The motional emf depends upon the	A. Length of conductor B. Speed of conductor C. Strength of magnet D. All of these
3	In A.C. inductor behaves as	A. Capacitor B. Resistor C. Commutator D. Transistor
4	In a coil current change from 2 to 4 A in .05 s . If the average induced emf is 8 V then coefficient of self-inductance is:	A. 0.2 henry B. 0.1 henry C. 0.8 henry D. 0.04 henry
5	The motional emf developed in a conduction depends upon.	A. Length B. Orientation C. Magnetic field D. All of the above
6	The device in the circuit that consume electrical energy are known as.	A. Dissipaters B. Generator C. Load D. Motors
7	One henry is equal to	A. 1 ohm x 1 sec B. 1 ohm x 1 hertz C. 1 ohm x 1 metre D. All of above
8	The mutual inductance between two coils depends upon their	A. Size B. Core material C. Size, core material and separation D. Separation
9	The unit of induced emf is	A. Ampere B. Volt C. Joule/coulomb D. Both (b) and (c)
10	Self induction does not depend on	A. Number of turns of the coil B. Area of cross section of the core C. Nature of material of the core D. Current through inductor
11	Induced emf in A.C. generator can be increased by	A. Decreasing area of coil B. Decreasing magnetic field C. Increasing area of coil D. Slowing down speed of coil
12	Electromagnetic induction obeys law of conservation	A. Charge B. Energy C. Momentum D. Mass
13	The self induction emf is some times called.	A. Motional emf B. Constant emf C. Back emf D. Variable emf
14	The current induced can be increased by:	A. Using a stronger magnetic field B. Moving the loop faster C. Replacing the loop bay coi of many turns D. All of above
15	A.C. Generator based upon the	A. Lenz's law B. Maxwell's relation C. Faradays law of electromagnet D. Faraday's law of induction

induction
D. Mutual induction

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- 16 A step up transformer is used 120 V line to provide 240 V. If primary coil has 100 turns the number of turns in secondary is.
- A. 50
B. 100
C. 150
D. 200
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- 17 By winding the coil around a less magnetic core, self induction.
- A. Will increase
B. Will decrease
C. Remain same
D. First increase then decrease
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- 18 Step up transformer has a transformation ratio of 3:2. What is the voltage in secondary, if voltage in primary is 30 V?
- A. 45 V
B. 15 V
C. 90 V
D. 300 V
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- 19 Step up transformer is used.
- A. Step up D.C. voltage
B. Step up A.C. voltage
C. Step up both A.C and D.C.
D. Step up A.C. current
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- 20 Energy stored in inductor is.
- A. $\frac{1}{2} L I^2$
B. $\frac{1}{2} LI$
C. $\frac{1}{2} L^2 I$
D. $\frac{1}{2} L^2 I^2$
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