

Physics FSC Part 2 Chapter 15 Online MCQ's Test

| Sr | Questions | Answers Choice |
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| 1 | A simple device that prevents the direction of current from changing is called. | A. Commutator B. Rotor C. Armature D. Detector |
| 2 | The winding of the electromagnet in motor are usually called. | A. Magnetic coils B. Field coils C. Electric coils D. electric o electric coils |
| 3 | 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 |
| 4 | Question Image | A. Lenz's law B. Faraday's law C. Ampere's law D. None of these |
| 5 | Energy density in an inductor is. | A. Directly proportional to magnetic field B. Directly proportional to square of magnetic field C. Inversely proportional to magnetic field D. Inversely proportional to square of magnetic field |
| 6 | The mutual inductance of the coils depends upon. | A. Stiffness of the coils B. Density of coils C. Material of coils D. Geometry of the coils |
| 7 | 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 |
| 8 | If force in the direction of velocity of conductor, then induced current is directed, | A. Anti clockwise B. Clock wise C. At equilibrium D. None of above |
| 9 | The device in which induced emf is statically induced emf is: | A. Transforms B. AC generator C. Alevator D. Dynamo |
| 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 | the core of transformer is laminated so reduce. | A. Magnetic loss B. Hysteresis loss C. Eddy current loss D. Electric loss |
| 12 | The Direction of induced current is always so as to oppose the change which causes the current, is: | A. Faraday's law B. Lenz's law C. Ohm's law D. Kirchhoff' s1ast rule |
| 13 | Electromagnetic induction obeys law of conservation | A. Charge B. Energy C. Momentum D. Mass |
| 14 | Lenz's law presented in | A. 1834 B. 1934 C. 1826 D. 1836 |

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| 15 | The magnitude of back emf: | A. Increases with speed of motor B. Decreases with speed of motor C. Remains same D. None of above |
| 16 | If D.C. input for step up transformer, the output is | A. Zero B. High C. Low D. May be high or low |
| 17 | The magnitude of motional emf is given by | |
| 18 | The illustration of the phenomenon of mutual induction is in the device of | A. Transformer B. Inductor C. A.C. Generator D. Ammeter |
| 19 | Mutual induction has a practical role in the performance of the. | A. Radio choke B. Transformers C. A.C. Generator D. D.C. Generator |
| 20 | Energy stored in inductor is. | A. $\frac{1}{2} L I^2$ B. $\frac{1}{2} L I$ C. $\frac{1}{2} L^2 I$ D. $\frac{1}{2} L^2 I^2$ |