


Physics ICS Part 2 Chapter 15 Online MCQ's Test

| Sr | Questions | Answers Choice |
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| 1 | The magnitude of back emf: | A. Increases with sped of motor B. Decreases with speed of motor C. Remains same D. None of above |
| 2 | EMF is induced due to change in | A. Charge B. Current C. Magnetic flux D. Electric field |
| 3 | Lenz's law presented in | A. 1834 B. 1934 C. 1826 D. 1836 |
| 4 | Energy density of an inductor is: | A. $U_M = \frac{1}{2} \mu B^2$ B. $U_M = 2 \mu B^2$ C. $U_M = \frac{1}{2} B^2 / \mu$ D. $U_M = 2 B^2 / \mu$ |
| 5 | 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's 1st rule |
| 6 | The magnitude of motional emf is given by | |
| 7 | When motor is just started, back emf is almost. | A. Maximum B. Zero C. Minimum D. Infinite |
| 8 | When back emf in motor is zero, it draws. | A. Zero current B. Minimum current C. Maximum current D. Steady current |
| 9 | $B^2/2\mu$ is the expression of. | A. Lenz's law B. Magnetic energy C. Magnetic energy density D. Back emf |
| 10 | If magnetic field is doubled then magnetic energy density becomes. | A. Four times B. Two times C. Three times D. Six times |
| 11 | Question Image  | A. Lenz's law B. Faraday's law C. Ampere's law D. None of these |
| 12 | If the coil is wound on iron core, the flux through it. | A. Decreases B. Becomes zero C. Increases D. Remains constant |
| 13 | 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 |
| 14 | Which of the following quantities remain constant in step up transformer? | A. Current B. Voltage C. Power D. Heat |
| 15 | The motional emf depends upon the | A. Length of conductor B. Speed of conductor C. Strength of magnet D. All of these |

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| 16 | Mutual induction play role in. | A. Generator B. D.C. motor C. Galvanometer D. Transformer |
| 17 | The mutual inductance between two coils depends upon their | A. Size B. Core material C. Size, core material and separation D. Separation |
| 18 | Electric current produces magnetic field, was suggested by. | A. Faraday B. Oersted C. Henry D. Lenz |
| 19 | In self induction A coil is connected in_____ with battery and a rheostat. | A. Parallel B. Series C. Both A and B D. None of above |
| 20 | 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 |