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## Electrical Inductors MCQ Test

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Below is the **Electrical Inductors MCQ** test that checks your basic knowledge of Electrical Inductors. This **Electrical Inductors MCQ Test** contains 20 Multiple Choice Questions. You have to select the right answer to the question. Finally, you can also take the Online Quiz from the Take **Electrical Inductors Quiz** Button.

**Q1. Inductance is the property of an inductor that produces an opposition to any change in current.**

- **A. True**
- B. False

**Q2. The inductance of an iron-core coil decreases if \_\_\_\_.**

- **A. The number of turns is decreased**
- B. The iron core is removed
- C. The length of the coil decreases
- D. None of the above

**Q3. A 5 mH, a 4.3 mH, and a 0.6 mH inductor are connected in parallel. The total inductance is \_\_\_\_.**

- A. 9.9 mH
- B. Greater than 5 mH
- C. 9.9 mH or greater than 5 mH
- **D. Less than 0.6 mH**

**Q4. Electricity may be generated by a wire:**

- A. carrying current
- **B. passing through a flux field**

- C. that has neutral domains
- D. wrapped as a coil

**Q5. The electrical energy consumed by a coil is stored in the form of a magnetic field.**

- **A. True**
- B. False

**Q6. When the current through an inductor is cut in half, the amount of energy stored in the electromagnetic field \_\_\_\_.**

- **A. is quartered**
- B. quadruples
- C. doubles
- D. does not change

**Q7. The term 'self-inductance' is used when a conductor has a voltage induced in it by:**

- **A. its own magnetic field**
- B. nearby electromotive force
- C. its own electromotive force
- D. a nearby magnetic field

**Q8. What is magnetic flux?**

- **A. The number of lines of force in webers**
- B. The number of lines of force in maxwells
- C. The number of lines of force in teslas
- D. The number of lines of force in flux density

**Q9. Which type of device consists of a coil with a moveable iron core?**

- **A. solenoid**
- B. reed switch
- C. relay
- D. armature

**Q10. Opposition to current flow without the dissipation of energy is called \_\_\_\_.**

- A. resistance
- **B. inductive reactance**
- C. counter emf
- D. impedance

**Q11. What is the name of the part inside a relay that is moved by the action of the electromagnet?**

- **A. armature**
- B. conductor
- C. contacts
- D. solenoid

**Q12. A crack in the magnetic path of an inductor will result in \_\_\_\_.**

- A. unchanged inductance
- B. increased inductance
- C. zero inductance
- **D. reduced inductance**

**Q13. The coefficient of coupling between two air core coils depends on \_\_\_\_.**

- A. Self inductance of two coils only
- B. Mutual inductance between two coils only
- **C. Mutual inductance and a self inductance of two coils**
- D. None of the above

**Q14. What is the voltage across a coil when  $di/dt = 20 \text{ mA}/\mu\text{s}$  and  $L = 8 \mu\text{H}$ ?**

- A. 16 mV
- **B. 160 mV**
- C. 1.6 mV
- D. 2.5 mV

**Q15. The permeability of a core material is an indication of the ability of the material to**

**establish a magnetic field.**

- **A. True**
- B. False

**Q16. Which of the following circuit element stores energy in the electromagnetic field?**

- **A. Inductance**
- B. Condenser
- C. Variable resistor
- D. Resistance

**Q17. A sine wave voltage is applied across an inductor, When the frequency of the voltage is decreased, the current is increased.**

- **A. True**
- B. False

**Q18. An open coil has \_\_\_\_.**

- A. Zero resistance and inductance
- **B. Infinite resistance and zero inductance**
- C. Infinite resistance and normal inductance
- D. Zero resistance and high inductance

**Q19. The direction of induced e.m.f. can be found by which of the following law?**

- A. Laplace's law
- B. Kirchhoff's voltage law
- C. Fleming's right hand rule
- **D. Lenz's law**

**Q20. Mutual inductance between two magnetically coupled coils depends on:**

- A. Permeability of the core material
- B. Number of turns of the coils
- C. Cross sectional area of their common core
- **D. All of the above**

**Q21. Inductance is indirectly proportional to the square of the number of turns, the permeability, and the cross-sectional area of the core.**

- A. True
- **B. False**

**Q22. A 240  $\mu$ H inductor is equivalent to a \_\_\_ inductor.**

- **A. 0.240 mH**
- B. 0.000240 mH
- C. 240 mH
- D. 240 H

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