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## Magnetic Circuit MCQ Test

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#### Q1. What is the unit of magnetic flux?

- **A. Weber**
- B. Henry
- C. Ampere/metre
- D. Ampere-turn/weber

#### Q2. Thin lamination are used in a machine in order to reduce

- A. Copper loss
- B. Hysteresis loss
- **C. Eddy current loss**
- D. None of the above

#### Q3. What is the relative permeability of vacuum?

- **A. 1**
- B.  $1/4\pi$
- C. 1 H/m
- D.  $4\pi \times 10^7$  H/m

#### Q4. Permanent magnets are normally made of

- A. Cast iron
- B. Aluminium
- **C. Alnico alloys**

- D. Wrought iron

**Q5. Those magnetic materials are best suited for making armature and transform cores which have \_\_\_\_ permeability and \_\_\_\_ hysteresis loss.**

- A. High, high
- B. Low, high
- C. **High, low**
- D. Low, low

**Q6. A magnetic circuit is made up of one or more closed loop paths containing a magnetic flux.**

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

**Q7. An air gap is usually inserted in magnetic circuits to \_\_\_\_.**

- A. Increase m.m.f
- B. Increase the flux
- C. **prevent saturation**
- D. None of the above

**Q8. Reciprocal of reluctance is:**

- A. Reluctivity
- B. **Permeance**
- C. Permeability
- D. Susceptibility

**Q9. Hysteresis loss least depends on:**

- A. Volume of material
- B. Frequency
- C. Steinmetz's coefficient of material
- D. **Ambient temperature**

**Q10. An air gap is usually inserted in magnetic circuits to \_\_\_\_.**

- A. Increase m.m.f.
- B. Increase the flux
- **C. Prevent saturation**
- D. None of the above

**Q11. A ferrite core has less eddy current loss than an iron core because \_\_\_\_.**

- A. Ferrites have high resistance
- **B. Ferrites have high hysteresis**
- C. Ferrites have low permeability
- D. Ferrites are magnetic

**Q12. What is the use of Laminated cores, in electrical machines?**

- A. Copper loss
- **B. Eddy current loss**
- C. Hysteresis loss
- D. All of the above

**Q13. While comparing magnetic and electric circuits, the flux of magnetic circuit is compared with which parameter of electrical circuit?**

- A. E.M.F.
- **B. Current**
- C. Current density
- D. Conductivity

**Q14. What is the unit of reluctance?**

- A. Meter/Henry
- B. Henry/meter
- C. Henry
- **D. 1/Henry**

**Q15. Is Magnetic reluctance is a scalar extensive quantity?**

- **A. Yes**
- B. No

**Q16. What is the dimension of Magnetic reluctance?**

- **A.  $M^{-1} L^{-2} T^2 I^2$**
- B.  $M^1 L^{-2} T^2 I^2$
- C.  $M^{-1} L^2 T^2 I^2$
- D.  $M^{-1} L^{-2} T^2 I^{12}$

**Q17. Permanent magnets are normally made of:**

- **A. Alnico alloys**
- B. Aluminium
- C. Cast iron
- D. Wrought iron

**Q18. Conductance is analogous to:**

- **A. Permeance**
- B. Reluctance
- C. Flux
- D. Inductance

**Q19. The unit of retentivity is \_\_\_\_.**

- A. Weber
- **B. Weber/sq. m**
- C. Ampere turn/meter
- D. Ampere turns

**Q20. The property of a material which opposes the creation of magnetic flux in it is known as Reluctance.**

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

**Q21. Which object would a magnet attract?**

- A. a glass bottle
- B. a rubber eraser
- C. a piece of paper
- **D. a steel paper clip**

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