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## **Electrical Machine Design MCQ Test**

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Below is the **Electrical Machine Design MCQ** test that checks your basic knowledge of Electrical Machine Design. This **Electrical Machine Design MCQ** contains 20 Multiple Choice Questions. You have to select the right answer to the question. apart from this, you can also, download **Electrical Machine Design MCQ PDF** Completely free.

**Q1. Which is the major consideration to develop a good electric machine design?**

- A. Durability
- B. Cost
- C. Compliance with performance criteria as laid down in specifications
- **D. All of the above**

**Q2. D.C. machines designed with a large value of air gap length have \_\_\_\_.**

- A. worst, ventilation
- B. poor ventilation
- **C. better ventilation**
- D. None of the above

**Q3. Portative electromagnets generally function as holding magnets.**

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

**Q4. Which of the following instruments indicate the instantaneous value of the electrical quantity being measured at the time at which it is being measured ?**

- A. Integrating instruments
- **B. Absolute instruments**

- C. Recording instruments
- **D. Indicating instruments**

**Q5. Which of the following is the commonly used type of electromagnets ?**

- A. Flat-faced armature
- B. Horse shoe
- C. Flat-faced plunger
- **D. All of the above**

**Q6. Wattmeter cannot be designed on the principle of \_\_\_\_.**

- A. electrostatic instrument
- B. thermocouple instrument
- **C. moving iron instrument**
- D. electrodynamic instrument

**Q7. Is Resistance is measured with the help of potentiometer?**

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

**Q8. A Weston synchronoscope is a \_\_\_\_.**

- A. moving coil instrument
- B. moving iron instrument
- **C. dynamometer instrument**
- D. None of the above

**Q9. The efficiency of a machine should be as \_\_\_\_\_ as possible to reduce the operating cost.**

- **A. high**
- B. low
- C. either of the above
- D. None of the above

**Q10. Which of the following methods is used for air cooling of turbo alternators ?**

- A. One-sided axial ventilation
- B. Two sided axial ventilation
- C. Multiple inlet system
- **D. All of the above**

**Q11. By which of the following methods motor rating for therapy load drives can be determined?**

- A. All of these
- **B. Method of average losses**
- C. Equivalent current method
- D. equivalent torque method

**Q12. Which off the following methods is most accurate ?**

- **A. Equivalent current method**
- B. Equivalent power method
- C. Equivalent torture method
- D. Method of average losses

**Q13. The tap changing facility is usually provided on \_\_\_\_\_ transformers.**

- A. high voltage
- **B. distribution**
- C. current
- D. All of the above

**Q14. A transformer is considered to have a network or series capacitance due to \_\_\_\_.**

- A. laminated core
- B. earthling
- **C. intern turn insulation**
- D. surrounding tank

**Q15. Multi step core is used in transformer to \_\_\_\_.**

- A. increase the output
- B. decrease the cost of core material
- C. decrease the cost of copper
- D. increase the efficiency

**Q16. In DC machines air gap is \_\_\_\_\_ in comparison to that in AC machines.**

- A. very short
- B. short
- C. longer
- D. All of the above

**Q17. What are the factors that decide the choice of specific magnetic loading?**

- A. Maximum flux density in iron parts of machine
- B. Magnetizing current
- C. Core losses
- D. All of the above

**Q18. What are the two types of winding used in the dc machines?**

- A. Lap winding
- B. Wave winding
- C. Both A and B
- D. None of the above

**Q19. CROS cannot be used in \_\_\_\_\_ rotating machines.**

- A. small
- B. medium
- C. large
- D. All of the above

**Q20. \_\_\_\_\_ brushes are fragile and cause excessive wear of commutator.**

- A. Natural graphite
- B. Hard carbon
- C. Electro graphitic

- **D.** Metal graphite

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