

**Computer Aided Analysis and Design for Electrical Engineering
Question Bank**

Chapter – 1 : Concept of Computer Aided Design and Optimization

1. What is design?
2. What is engineering design?
3. What are the objectives of a designer?
4. What are the three major considerations for a good design?
5. What are the limitations in design?
6. Why mechanical strength of insulating material should be considered while designing electrical machine.
7. How does the design change with a better quality of magnetic material?
8. What are the main dimensions in machine design?
9. Write a short note on: Factors affecting size of rotating machines.
10. Define:
 - a. output equation
 - b. Specific electric loading
 - c. Specific magnetic loading
11. How computer aided design is advantageous in electrical machine design process? Describe in brief.
12. List various objective parameters for optimization in an electrical machine and explain in brief.
13. Write a short on Flowchart with suitable example.
14. List various applicable constraints in design and explain any two in detail.
15. Draw a flowchart for generalized computer aided design.