1. What is a CNC machine? How do CNC machines work?
2. Explain the fundamental concept of numerical controls
3. Explain the need of NC in machine tools
4. Give advantages of NC machine Tool
5. Differentiate between NC, CNC and DNC.
6. Discuss the problems with conventional machine tools
7. Discuss advantages and disadvantages of CNC machines.
8. What do you mean by control axis?
9. Give constructional details of NC machine tools.
10. Explain drives, feedback devices and counting devices in detail.
11. What is interpolation? Explain in detail.
12. Discuss Incremental and absolute system.
13. Classify NC machine tools.
14. Discuss tooling used for NC machines.
15. Explain in detail the part programming.
16. Discuss in detail about geometric modelling for NC machines.
17. Explain compilation control commands and repetitive macro programming.

18. Explain flexible tooling and tool path simulation in machine tools.

19. What is the role of microprocessor in machine tools? Explain.

20. What do you mean by DAC and ADC in machine tools?

21. Write short note on economics of NC for machine tools.