



**I. Answer all questions**

**1×10=10M**

1. Name the component used for switching circuits in I generation computers.
2. Define resolution of a monitor.
3. What is bottom-up approach of problem solving?
4. Find the value of x if  $x = a++$  and  $a=3$ .
5. What are manipulators?
6. Mention any one jump statement in c++.
7. What is an array?
8. What is default return type of a function?
9. What is the use of font dialog box?
10. What is the extension of an excel worksheet?

**II. Answer any five questions**

**2×5=10M**

11. Explain any two features of computers.
12. Mention different types of Operating System.
13. Mention different types of keys on keyboard.
14. Mention the advantages of an algorithm.
15. Mention any two fundamental datatypes.
16. Mention any two built-in functions along with their header files.
17. Mention any two advantages of OOPs.
18. Give the keystrokes for **UNDO editing** and **Select all** options in MS-Word.

**III. Answer any five questions**

**3×5=15M**

19. Explain any one secondary memory device.
20. Write a note on computer codes.
21. Differentiate between compiler and interpreter.
22. Briefly explain while iterative construct.
23. Explain integer constants in c++.
24. Explain insertion and extraction operators in c++.
25. Explain the process of definition of structure with an example.
26. Write a program segment to input one-dimensional array.

**IV. Answer any seven questions**

**5×7=35M**

27. Explain the application of computers.
28. Find  $56_{(10)} - 25_{(10)}$  using two's complement method of binary subtraction.
29. Draw a flowchart to find the given element in an array using linear search method.

30. Mention different operators in C++ and explain any one category of operators.
31. Explain if-else ladder in C++ with a suitable programming example.
32. Write a C++ program to check whether a given number is power of two.
33. What is a two dimensional array? How do you initialize two dimensional array?
34. Explain pass by reference method of calling a function with an example.
35. Explain various applications of a spread sheet.
36. Explain the use of various statistical functions of MS – Excel with a suitable example.
37. Explain the structure of a HTML program with an example.

\*\*\*\*\*