



PART - A

I Answer all the following questions. Each question carries ONE mark. 1 x 10 =10

1. Expand UNIVAC?
2. Define resolution of a monitor.
3. Define LSB.
4. Define a flowchart.
5. Define a class.
6. What is a constant?
7. What is an array?
8. What are global variables?
9. Define a word processor.
10. What is the extension with which a workbook is saved?

PART - B

II. Answer any FIVE questions. Each Question carries TWO marks. 2 x 5 =10

11. Explain history of computers.
12. List the different methods to represent negative number.
13. What is an assembler and a compiler.
14. Write an algorithm to find the area and circumference of a circle.
15. Give any two characteristics of C++ programming language.
16. What is a function prototype? Give an example.
17. What is a structure? How is a structure defined?
18. What is header and footer in word processor?

PART - C

III. Answer any FIVE questions. Each Question carries THREE marks. 3 x 5 = 15

19. Explain the role of computers in business and multimedia.
20. Mention any four differences between impact and non-impact printers.
21. Subtract $35_{(10)}$ from $20_{(10)}$ using 2's complement.
22. Write a note on top-down approach.
23. Explain the different bitwise operators with examples.
24. Write a program to input a character and find out whether it is a lower case or upper case character using if-else statement.
25. Explain call by reference with a suitable example.
26. What is enumerated data type? How is it defined and declared?

PART - D

IV. Answer any SEVEN questions. Each question carries FIVE marks. 5 x 7 = 35

27. Explain the classification of computer.
28. Explain the various types of optical media in detail.
29. Convert (a) $100010001_{(2)} = ?_{(10)}$ (c) $BAD_{(16)} = ?_{(10)}$
(b) $6654_{(8)} = ?_{(10)}$ (d) $100111001101_{(2)}$ (e) $100100111111_{(2)} = ?_{(16)}$
30. Draw a flowchart to check whether a given matrix is scalar or not.

31. Explain the working of *for* statement in detail with a suitable example.
32. Write a program to find the position of a given element in an array.
33. Explain the use of actual and formal arguments with suitable examples.
34. Explain any five library functions associated with strings in detail with suitable examples.
35. What is mail merge? Explain the steps in creating a mail merge.
36. What is E-mail? Explain any two advantages and disadvantages.
37. Give the structure of HTML program. Explain any five HTML tags in detail.
