Time: 3 Hours 15 Minutes   **Max. Marks: 70**

PART - A

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

1. Name the first generation computers.
2. What does MOUSE stand for?
3. Define testing.
4. What is an identifier?
5. Give the syntax for *cout* statement.
6. What is *break*?
7. Which function returns the length of a string?
8. Give two examples of library function.
9. What is a table?
10. Why is the cell pointer used?

PART - B

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

11. Give the difference between analog and digital computers.
12. Write any two advantages of MICR.
13. Explain object code and source code.
14. What is the difference between verification and validation?
15. Explain any two advantages of Object Oriented Programming.
16. What is a named constant? How are named constants defined.
17. What is the difference between call by value and call by reference?
18. Give two advantages of using word processor.

PART - C

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

19. Write the difference between primary and secondary memory?
20. Convert   a) $955_{(10)}$ to $?_{(8)}$ b) $1056_{(8)}$ to $?_{(2)}$ c)$FEED_{(16)}$ to $?_{(10)}$
21. Explain low level and high level programming language.
22. Explain the working of if-else construct with an example.
23. What are the symbols used in flowchart.
24. Give the structure of a C++ programming.
25. Explain the usage of get() , put() and setprecision () with example.
26. Write a C++ program to check given character is in uppercase or lowercase.
27. What is a structure? How is it defined and declared?

PART - D

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

28. Explain the characteristics of computer in detail.
29. Subtract $69_{(10)}$ from $33_{(10)}$ using 2's complement .
30. Draw a flowchart to find the factorial of a number.
31. Write an algorithm and flowchart to reverse a number.
32. What is an expression? What are the different types of expressions be formed in c++.

33. Write a program to find the frequency occurrence of a number.
34. Give the differences between while and do-while statements.
35. Write a c++ program to check the given string is palindrome or not.
36. What are user defined functions? Explain its types.
37. Explain advantages and disadvantages of E-mail in detail.

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