JAIN COLLEGE

Address: #463/465, 18th Main Road, SS Royal, 80 Feet Road
Rajarajeshwari Nagar, Bangalore - 560 098

Date: **II PUC** **SUBJECT: COMPUTER SCIENCE**
MOCK - I

Timings Allowed: 3 Hours and 15min **Total Marks: 70**

PART A

I. Answer all questions 10 X **1** = 10

1. Expand USB.
2. What is logic gate?
3. What is traversal?
4. What is class?
5. How do you declare a pointer?
6. What is relation?
7. What is chatting?
8. What is modem?
9. What is script?
10. Expand HTML.

PART B

II. Answer any five of the following. 5 X **2** = 10

11. Draw K Map for F(X, Y, Z) = ∑ (1, 3, 6, 7).
12. Write the canonical SOP form of the function BC + $\bar{A}$B.
13. Define class and object.
14. What is constructor? Give an example.
15. What are the two methods of opening a file?
16. What are data models? Mention any one.
17. How SQL functions are classified?
18. Why do we need networking? Justify.

PART C

III. Answer any five of the following. 5 X **3**= 15

19. Mention the components of mother board.
20. Explain the working of AND gate with truth table.
21. Explain any 2 operations performed on Stack.
22. What is pointer? Mention any 2 advantages.

23. Explain any one method of opening a file.
24. Write any three applications of database.
25. Write a note on WWW.
26. Write the difference between HTML and XML.

PART D

IV. Answer any <u>seven</u> of the following. 7 X **<u>5</u> =** 35

27. Reduce the following expression using K-Map.

    $F(A,B,C,D) = \sum(0,2,3,4,5,6,7,8,10,12)$

28. Write an algorithm to insert an element into an array.
29. Write an algorithm to push an element into stack.
30. Explain structured programming.
31. Explain the 2 methods of accessing the member functions.
32. Write a program to swap two integer and floating point values using function overloading.
33. Explain default constructor with example.
34. With an example explain the working of constructor and destructor in inheritance.
35. Explain first normal form.
36. Explain the aggregate functions.
37. Explain the types of network.

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