



JAIN COLLEGE

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SUBJECT: COMPUTER SCIENCE

**II PUC
MOCK - I**

Timings Allowed: 3 Hrs 15 Minutes

Total Marks: 70

- Instructions:**
- i) Questions paper contains four parts.
 - ii) Part A all questions are compulsory
 - iii) Part B and Part C only five question to be answered.
 - iv) Part C only five questions to be answered.
 - v) Write the question number properly.

PART A

I. Answer all questions

10 X 1 = 10

1. Expand USB.
2. What is logic gate?
3. What is stack?
4. By default all the members of a class are_____.
5. Mention any one advantage of pointer.
6. What is a relation?
7. What is topology?
8. Expand HTTP.
9. What is proprietary software?
10. What is web scripting?

PART B

II. Answer any five of the following.

5 X 2 = 10

11. Reduce $X'Y'Z' + X'YZ' + XY'Z' + XYZ'$.
12. Draw a general K-Map for four variables.
13. What is data abstraction and data encapsulation?
14. What is constructor? Give an example.
15. What is stream? Name the stream generally used for file I/O.
16. Classify various types of keys used by in data base.
17. What is dual table? Write a command using dual table.
18. List the goals of networking.

PART C

III. Answer any five of the following.

5 X 3 = 15

19. Explain the types of power supply.
20. Give the definition, truth table and logic symbol of XOR gate.

21. Explain the memory representation of one dimensional array.
22. What are the advantages of pointer?
23. What are the advantages of saving the data in binary form and text form?
24. What is a relationship? Classify and give example.
25. Write a note on free software.
26. Write a note on domain registration.

PART D

IV. Answer any seven of the following.

7 X 5 = 35

27. Reduce $F(A,B,C,D) = \sum m(0,2,7,8,10,15)$ using Karnaugh Map. And draw logic gate diagram for the reduced expression.
28. Explain the operations performed on linear data structure.
29. Write an algorithm to insert an element into an array.
30. List the real time applications of OOP.
31. Explain class definition and declaration with syntax and example.
32. List the rules for writing a constructor function.
33. Write a program to find the area of square, triangle and rectangle using function overloading.
34. Explain types of inheritance.
35. Explain database architecture.
36. Write SQL commands for following.
 - a. Create table employee with attributes ENO, ENAME, DESIGNATION, SALARY
 - b. Insert 3 records.
 - c. Display name and salary of all employees in the descending order of their salary.
37. Give the measures of preventing virus.
