



**SRI BHAGAWAN MAHAVEER JAIN
COLLEGE**

Vishweshwarapuram, Bangalore.

Mock Paper 2 January 2020

Course: II PUC

Subject: Computer Science
(PCMC, ABSC)

Max. Marks: 70

Duration: 3.15hrs.

I. Answer all the questions. Each question carries one mark.

1 X 10 = 10

1. Expand SDRAM
2. Write standard symbol for XNOR gate?
3. What is binary tree?
4. What is instance of a class called as ?
5. What is the other name for pointer operator?
6. Define candidate key.
7. What is ethernet card?
8. What is firewall?
9. What is freeware?
10. What is web hosting?

II Answer any five. Each question carries two marks.

2 X 5 = 10

11. What are the fundamental products for each of the input words: ABCD = 0010, ABCD = 1100, ABCD = 1110
12. Write the complement of AB + CD
13. Explain Polymorphism.
14. Why are constructors needed in a program?
15. What is the use of seekp() and seekg() functions.
16. Write any four applications of database.
17. Give the syntax and example of UPDATE command
18. Write the goals of networking.

III Answer any five. Each question carries three marks.

3 X 5 = 15

19. Explain the types of system bus.
20. What is universal gate? Write the symbol of any one universal gate.
21. Write an algorithm to insert an element into a queue.
22. Write the difference between static and dynamic memory allocation
23. Explain the methods of opening a file.
24. Explain ISAM file organization
25. Explain the types of e-commerce.
26. Explain the features of DHTML

IV Answer any seven. Each question carries five marks.

7 X 5 = 35

27. Give $f(A, B, C, D) = \pi(0, 2, 4, 6, 8, 10, 14)$ reduce the function using K-map
28. Explain various operations performed on stack.
29. Write an algorithm to search an element using linear search method.
30. Write the advantages of OOPs.
31. Explain array of objects? Explain with example.
32. Explain the functions overloading with programming example.
33. Explain the copy constructors with syntax and example
34. Explain hybrid and hierarchical inheritance
35. Define data mining. Explain its stages
36. What are operators in SQL? Briefly explain comparison / relational operators in SQL
37. Explain switching techniques.
