



SRI BHAGAWAN MAHAVEER JAIN COLLEGE
Vishweshwarapuram, Bangalore 560004
Mock Question Paper II- January 2019

Course:	II PUC
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Subject:	Computer Science(PCMC,ABEC,ABSC)
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Max. Marks:	70
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Duration:	3:15 hrs.
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I. Answer all the questions. Each question carries one mark.

1X10= 10

1. Expand MIDI.
2. Write the truth table of XNOR gate.
3. What is linear data structure?
4. What are member functions?
5. What is a free store?
6. Define data independence.
7. Give an example for half duplex communication mode.
8. What is network security?
9. What is web browser?
10. What is web 2.0?

II. Answer any five. Each question carries two marks.

2 X 5=10

11. Prove algebraically that $(X+Y)(X+\bar{Y})=X$
12. What is minterm and maxterm?
13. Define data abstraction and data encapsulation.
14. Write the syntax and example of default constructor.
15. Differentiate between get() and getline() functions.
16. What is database model? Write any one database model.
17. Write the purpose of orderby clause with an example.
18. Write a note on optical fibres.

III. Answer any five. Each question carries three marks.

3 X 5= 15

19. Explain components of mother board.
20. Realize the basic gates using NOR gate.
21. Define: a). Root node b). internal node c). height of node
22. Explain delete operator.
23. Write the advantages of binary file.
24. What is E-R diagram? Explain any 2 symbols used in E-R diagram.
25. Define : a). Internet b). Intranet c). Extranet
26. Write the features of XML.

IV. Answer any seven. Each question carries five marks.

7 X 5= 35

27. Find the minimum POS expression of $f(A,B,C,D)=\Pi(0,1,3,5,6,7,10,14,15)$ using K-map.
28. What is linked list? Explain the types of linked list.

29. Apply insertion sort technique to sort numbers in ascending order 55,45,35,15,25.
30. Write any three advantages and two disadvantages of OOPS.
31. What is class declaration? Explain with syntax and example.
32. Explain features of friend function.
33. Explain implicit method of invoking parameterized constructor.
34. Explain a). Hybrid inheritance b). Hierarchical inheritance.
35. Explain the stages of data mining.
36. Explain the constraints used in SQL.
37. Explain the modes of data communication.