



**SRI BHAGAWAN MAHAVEER JAIN COLLEGE**

Vishweshwarapuram, Bangalore.

**Mock Exam 2 - Feb.2016**

**Course:** II PUC

**Subject:** Computer Science

**Max. Marks:** 70

**Duration:** 3:15 Hrs

**PART - A**

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

1. What is motherboard?
2. What is derived gate?
3. Define graph.
4. Write the default access specifier in a class.
5. What is the purpose of delete operator in C++?
6. Write any one application of database.
7. What is a SIM card?
8. Expand CDMA.
9. Define e-commerce.
10. What is web server?

**PART - B**

**II. Answer any FIVE questions. Each question carries TWO marks. 5 x 2 = 10**

11. State and prove complementarity law.
12. Draw a general K-map for A,B,C and D in SOP form.
13. Write any two disadvantages of OOPS.
14. Mention any two features of parameterized constructor.
15. Differentiate between ifstream class and ofstream class.
16. Write any two disadvantages of Data warehousing.
17. Explain comparison operators in SQL.
18. Write the advantages of FTP.

**PART - C**

**III. Answer any FIVE questions. Each question carries THREE marks. 5 x 3 = 15**

19. Explain USB port.
20. Write the logic diagram and truth table for XOR gate.
21. Write an algorithm for PUSH operation on stack.
22. What are the operations performed on pointers.
23. Write the difference between text file and binary file.
24. Explain any 3 components of ER diagram.
25. Write the advantages of WWW.

26. Write the features of DHTML.

**PART - D**

**IV. Answer any SEVEN questions. Each question carries FIVE marks.**

**7 x 5 = 35**

27. Given the Boolean function  $F(w, x, y, z) = \prod (5,6,7,8,9,12,13,14,15)$ . Reduce it using K-map.
28. Apply binary search method for the following sequence to search the element 42. In the array  
A = 12, 22, 32, 42,52
29. Explain the operations performed on queue
30. Write the difference between procedural programming and object oriented programming.
31. Write a program to create a class with data members a,b,c and member functions to input data, compute the discriminant based on conditions, discriminant equal to zero, greater than zero and less than zero and print the roots.
32. Explain inline function with advantages and disadvantages.
33. Explain use of = operator in constructor with an example.
34. Explain (a) hybrid b) hierarchical inheritance.
35. Explain Data processing cycle.
36. Write a note on constraints used in SQL.
37. Explain OSI model in networking

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