



Jain College, Jayanagar

II PUC Mock Paper -I

Subject: II PUC Computer Science (41)

Duration: 3 hrs 15 minutes

Max. Marks: 70

**PART A**

Answer all the questions. Each question carries ONE marks.

1×10=10

1. Expand DDRRAM.
2. What is tautology?
3. Define linked list.
4. Write an example to show how objects can be used as function arguments.
5. Define indirection operator.
6. What is relation?
7. Name the first computer network.
8. What is SIM card?
9. What is FLOSS?
10. Mention the use of HTML.

**PART B**

Answer any 5 of the following questions. Each question carries TWO marks.

2×5=10

11. Write the logic symbol and Truth table of NAND gate.
12. Find the minterm designation of xyz.
13. Define Dynamic binding and data encapsulation.
14. Why the constructors are needed in a program? Justify.
15. Differentiate text file and binary file.
16. Explain any 2 components of E-R model.
17. List the data types supported in SQL.
18. Mention different networking techniques.

**PART C**

Answer any 5 of the following questions. Each question carries THREE marks.

3×5=15

19. Mention the components of motherboard.
20. What are universal gates? Write truth table and standard symbol of NAND gate.
21. Define the following terms with respect to binary tree.  
(i) Root                      (ii) Edge                      (iii) complete tree
22. What is new operator in c++? Explain with an example.
23. Explain the following functions with respect to files.  
(i) eof()                      (ii) seekp()                      (iii) tellg().
24. Explain 1-tier database architecture.
25. Write the goals of networking.
26. Give the difference between HTML and XML.

## PART D

Answer any 7 of the following questions. Each question carries FIVE marks.

5×7=35

27. State the different Boolean theorems.
28. What are primitive data structures? Explain the operations that we can perform on primitive data structure.
29. Write an algorithm to delete a data element from the front end of the queue.
30. Write the difference between procedural oriented programming and object oriented programming.
31. Explain the use of an array of objects with an example.
32. What is function overloading? Write the advantages of function overloading.
33. What is default constructor? Explain with an example.
34. Create a base class containing the data members roll number and name. Also create a member function to read and display the data using the concept of single level inheritance. Create a derived class that contains marks of two subjects and total marks as the data members.
35. Write a short note on normalization.
36. Explain DDL and DML commands in SQL.
37. Explain the different transmission media in networks.

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