SRI BHAGAWAN MAHAVEER JAIN COLLEGE

Vishweshwarapuram, Bangalore 560004

For reduced syllabus 2020-21
Mock paper – 2

Course:	II PUC		Subject:	Computer Science(PCMC,ABSCs,ABECs)

Max. Marks:	70		Duration:	3 hrs 15 minutes

PART-A

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

1. Expand SDRAM.
2. Write the standard symbol of XOR gate.
3. What is data structure?
4. What is the height of a tree?
5. What is the other name for function overloading?
6. What is hierarchical inheritance?
7. Name the default visibility mode in inheritance.
8. Write one advantage of pointers.
9. Define foreign key.
10. Write one disadvantage of sequential file organization.

PART-B

Answer any five questions. Each question carries TWO marks.   2 x 5=10

11. Explain USB port.
12. What is minterm and maxterm?
13. Mention the two methods of defining member function.
14. Why are constructors needed in a program?
15. Write any two advantages of inheritance.
16. What is pointer operator? Give an example.
17. What is the use of tellp() and tellg()member functions?
18. Explain logical one-tier architecture in dbms.

PART-C

Answer any five questions. Each question carries THREE marks.   3 x 5=15

19. Draw a general k-map of three variables A,B,C, SOP form.
20. Write an algorithm to push an element into a stack.
21. What is searching? Mention any 2 techniques of searching.
22. What is binding? Explain 2 types of binding.
23. Write an example to show the use of parameterised constructor through implicit call.
24. Explain static memory allocation.
25. Write the advantages of binary file.
26. Mention the stages of data mining.

PART-D

Answer any seven questions. Each question carries FIVE marks.   5 x 7=35

27. Write a note on power supply to computer system.
28. Minimize $f(A,B,C,D)=\Sigma(0,1,5,7,8,9,14,15)$ using k-map.
29. Explain XOR and XNOR gates.
30. Explain the operations performed on queues.
31. What is linked list? Explain the types of linked list.
32. What are the advantages of OOP over procedural programming?
33. Explain how to create an object with syntax and example.
34. Explain friend functions with syntax and example.
35. Explain copy constructor with syntax and example.
36. Explain multi level and multiple level inheritance.
37. What is data warehouse? Explain the stages of data warehouse.

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