



JAIN COLLEGE, J C Road Bangalore
Mock Paper -1, December- 2017
II PUC- Computer Science (41)

Time: 3 Hours 15 Minutes

Max. Marks: 70

PART - A

- I. Answer all the questions. Each question carries ONE mark. 1 × 10 =10**
1. What is cache memory?
 2. What is a logic gate?
 3. What is a binary tree?
 4. Mention the operator used to access members of a class.
 5. What is address operator?
 6. Which command is used to delete a table?
 7. Name any one guided transmission media.
 8. What is a bandwidth?
 9. What is freeware?
 10. What are form elements?

PART - B

- II. Answer any FIVE questions. Each Question carries TWO marks. 5 × 2 = 10**
11. What is POS form?
 12. Prove that $X+XY=X$.
 13. Write any two advantages of object oriented programming.
 14. What is constructor overloading?
 15. What are the different file opening modes?
 16. What is generalization?
 17. Explain primary key constraint with example.
 18. What is Circuit Switching?

PART - C

- III. Answer any FIVE questions. Each Question carries THREE marks. 5× 3 = 15**
19. Explain the features of XT and AT motherboards.
 20. Explain NAND and NOR gate.
 21. List the operations performed on Queues.
 22. Give the difference between static and dynamic memory.
 23. Explain the significance of f stream. h header file.
 24. Explain random file organization.
 25. What is internet surfing?
 26. Explain Radio button, Dropdown, Checkbox.

PART - D

- IV. Answer any SEVEN questions. Each question carries FIVE marks. 7 × 5 = 35**
27. State and prove De-Morgan's theorem.
 28. Write an algorithm to insert an element into an array.
 29. Write an algorithm to POP an element from the stack.
 30. Explain the basic concepts of OOP's.
 31. Explain the use of an array of object with an example?

32. Write a program to find area of square, rectangle and triangle using function overloading.
33. Explain constructor overloading with an example.
34. What is inheritance? Explain its types.
35. Write a note on data abstraction in database concepts.
36. Explain DDL and DML commands?
37. Explain switching techniques in computer network.



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Mock Paper -2, December - 2017
II PUC- Computer Science (41)

Time: 3 Hours 15 Minutes

Max. Marks: 70

PART - A

- I. Answer all the questions. Each question carries ONE mark. 1 × 10 =10**
1. Expand PCI.
 2. Which gates are called universal gates?
 3. What do you mean by traversing?
 4. Define object?
 5. What is dynamic memory?
 6. List the logical operators of SQL.
 7. Expand CDMA.
 8. What is a router?
 9. Define World Wide Web.
 10. What is XML?

PART - B

- II. Answer any FIVE questions. Each Question carries TWO marks. 5 × 2 =10**
11. What is AND operator?
 12. Give an example for a Boolean expression in Maxterm and Minterm.
 13. What is difference between procedural programming and object-oriented programming?
 14. Mention the types of constructor.
 15. What is stream? Name the streams used with I/O.
 16. Give two advantages of hierarchical model.
 17. How do you modify the column name and width for existing table?
 18. What is difference between LAN and MAN?

PART - C

- III. Answer any FIVE questions. Each Question carries THREE marks. 5 × 3 = 15**
19. What is the use of UPS? Explain different types of UPS.
 20. Draw the logic circuit diagram for
(A+B).(C+D) ii) $YZ+XZ=Y$
 21. Mention the types of linked list.
 22. Explain call by address with example.
 23. Give the difference between get() and put().
 24. Give the difference between network data model and relational data model.
 25. Give the difference between free software and proprietary?
 26. Explain the components of DHTML?

PART - D

- IV. Answer any SEVEN questions. Each question carries FIVE marks. 7 × 5 = 35**
27. Simplify the following $f(A,B,C,D)=(M1,M5,M6,M7,M11,M12,M13,M15)$ using KMAP.
 28. Write an algorithm to sort the numbers in an array using insertion sort?
 29. Write an algorithm to perform Qinsert(enqueue) operation.

30. Give the advantages and disadvantages of OOP's.
31. Write a note on types of access specifiers.
32. What is function overloading? Explain with an example.
33. Explain the types of constructors.
34. Write a note on multilevel inheritance.
35. Explain 3-tier architecture?
36. Explain create and alter command.
37. Write a note on computer virus.