Part-A

Duration: 3 Hrs 15 mins

I. Answer all the questions.

- 1. Expand DDRRAM.
- 2. What is meant by universal Gates?
- 3. Define data structures.
- 4. What are the two types of members referenced in a class?
- 5. Which is the implicit pointer to an object of a class?
- 6. What is data mining?
- 7. Define WAN.
- 8. Who are hackers?
- 9. What is Telnet?
- 10. What is XML?

Part-B

II. Answer any 5 questions. Each carries 2 marks.

5×2=10

- 11. Prove xy + x = x using truth table
- 12. Define Tautology and fallacy.
- 13. Briefly discuss the classes in OOP's.
- 14. Explain any two methods of invoking a parameterized constructor.
- 15. What is the use of eof() and tellp() with respect to files .
- 16. What is data Independence? Mention its types.
- 17. How do you modify the column name and width for existing table?
- 18. Explain any two types of communication modes or transmission modes.

Part-C

III. Answer any 5 questions. Each carries 3marks.

- 19. Explain the different types of input output ports.
- 20. Explain any three derived gates.
- 21. Define the following with respect to binary tree

1.Root 2. Depth 3. Degree

- 22. Explain the following
 - 1. Free store
 - 2. Pointer operator
 - 3. Addressof operator
- 23. Explain the different methods of opening a file in C++.
- 24. Explain ISAM.





10×1=10

25. Define the following

1. OSS 2. FLOSS 3. WIPO

26. What are the uses of PHP files?

Part-D

IV. Answer any 7 questions. Each carries 5 marks.

27. Given the Boolean function reduce it using k map.

F(A,B,C,D)=π(0,4,8,9,10,11,12,13,15)

- 28. What is Queue? Explain the different types of queue.
- 29. Write an algorithm to delete an element from an array from the given position.
- 30. Write the differences between procedural programming and object oriented programming.
- 31. Explain array of objects in detail.
- 32. Write a program to find area of square, rectangle, triangle using function overloading.
- 33. Explain default constructor with Syntax and example.
- 34. What is virtual base class? Give an example.
- 35. What is data warehouse? Explain its components.
- 36. Write a note on DDL commands in SQL.
- 37. What is network topology? Explain in detail.

7×5=35