

# MID TERM EXAMINATION, DECEMBER 2021

CLASS : II PUC

SUBJECT : COMPUTER SCIENCE (41)

MARKS : 70

TIME 3 Hour 15 Mins.

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## PART - A

Answer all the questions.

Each question carries ONE mark.

10x1=10

1. What is a motherboard ?
2. What is Tautology ?
3. Write the truth table of two variables AND operation.
4. What is a logic gate ?
5. Define Data structure.
6. Which is the default access specifier ?
7. What is the purpose of scope resolution operator ?
8. Define function Overloading.
9. When is a Constructor called ?
10. What is the use of a Webpage?

## PART - B

Answer any FIVE questions.

Each question carries 2 marks.

5x2=10

11. What is minterm and maxterm ?
12. What is primitive data structure ? Give example.
13. Define sorting. Mention one type of sorting method.
14. What is base class and derived class ?
15. How do you declare an object ? Give example.
16. Write a note on public access specifier.
17. Write the syntax and example of a destructor.
18. What is HTML ? What is the extension used to save a HTML file ?

## PART - C

Answer any FIVE questions.

Each question carries 3 marks.

5x3=15

19. What is UPS ? Mention its different types.
20. Write the logic symbol and truth table of NAND gate.
21. Write an algorithm for linear search method.
22. Give the syntax and example of class definition.
23. Discuss overloaded function with syntax and example.

(P.T.O)

24. What is constructor ? Give its syntax and example.
25. Explain any 3 text formatting tags.
26. Name the tags to (a) insert an image (b) insert a table (c) tag for listing.

**PART - D**

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

7x5=35

27. Explain any 5 components of motherboard.
28. Simplify the following Boolean functions using K - Map.  
 $f(a, b, c, d) = \sum(0, 1, 4, 5, 9, 10, 11, 13, 14, 15)$
29. State and prove any one De-Morgan's theorem using truth table method.
30. Realise the basic gates only using NOR gates.
31. Write the algorithm to insert an element into an array.
32. Explain the different operations on stacks.
33. Explain the basic concepts/characteristics/ features of OOP's.
- ~~34.~~ Write the different applications of OOP's.
35. Explain inside class definition of a member function with an example program.
36. Explain inline function with a programming example.
37. How is a constructor invoked using implicit call ? Explain with example.

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