

A**SECOND REVISION TEST - 2025****Standard - XI****Time: 3.00 hrs****COMPUTER SCIENCE****Marks:70****PART - A****Answer all the Questions:****15x1=15**

- Which generation of computer used IC's?
a) First b) Second c) Third d) Fourth
- $A+A = ?$
a) A b) 0 c) 1 d) \bar{A}
- What is the smallest size of data represented in a CD?
a) blocks b) sectors c) pits d) tracks
- Which of the following operating systems support Mobile Devices?
a) Windows 7 b) Linux c) BOSS d) iOS
- The shortcut key used to rename a file in windows _____
a) F2 b) F4 c) F5 d) F6
- If $0 < i$ before the assignment $i = i-1$ after the assignment, we can conclude that _____
a) $0 < i$ b) $0 \leq i$ c) $i = 0$ d) $0 \geq i$
- A loop Invariant need not be true _____
a) at the start of the loop b) at the start of each iteration
c) at the end of each iteration d) at the start of the algorithm
- Which operator is used to access reference of a variable?
a) \$ b) # c) & d) !
- In C++, the group of statements should be enclosed within _____
a) { } b) [] c) () d) < >
- Which of the following is the scope operator?
a) > b) & c) % d) ::
- `int age[] = {6,90,20,18,2};` How many elements are there in this array?
a) 2 b) 5 c) 6 d) 4
- The variables declared inside the class are known as _____
a) data b) inline c) method d) attributes
- Which of the following refers to a function having more than one distinct meaning?
a) function overloading b) Member overloading
c) operator overloading d) operations overloading
- Which amongst the following is executed in the order of Inheritance?
a) Destructor b) Member function c) Constructor d) Object
- Distributing unwanted e-mail to others is called _____
a) scam b) spam c) fraud d) spoofing

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PART - II

II Answer any Six questions.

6x2=12

Question number 24 is compulsory.

16. What is computer?
17. Write the associative laws?
18. Which source is used to erase the content of a EPROM?
19. Differentiate Files and Folders?
20. What is meant by a token? Name the token available in c++?
21. Write down the importance of destructor?
22. Write a short note on cracking?
23. List the search engines supported by Tamil language?
24. Write a for loop that displays the number from 21 to 30.

PART - III

III Answer any Six questions.

6x3=18

Question number 33 is compulsory.

25. Name any three output devices?
26. Differentiate PROM and EPROM.
27. Write a note on the elements of a window?
28. What are arithmetic operators in c++? Differentiate unary and binary arithmetic operators. Give example for each of them?
29. What is Built in Functions?
30. How to access members of a structure? Give example?
31. List some of the features of modular programming?
32. What is the role of fire walls?
33. What are the rules for operator overloading?

PART - IV

IV Answer all the questions.

5x5=25

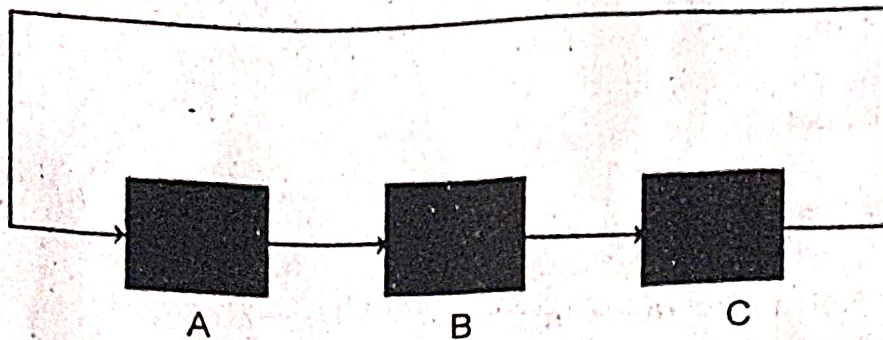
34. a) Explain the basic components of a computer with a neat diagram.

(OR)

- b) Circulate the contents: Write the specification and construct an algorithm to circulate the contents of the variables A, B and C as shown below: The arrows indicate that B gets the value of A, C gets the value of B and A gets the value of C.

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35. a) Explain the process management algorithms in Operating System.

(OR)

b) a) Add $1101010_2 + 101101_2$

b) Subtract $1101011_2 - 111010_2$

36. a) Explain scope of variable with example.

(OR)

b) Write a program to find sum of the series

$$S = 1 + x + x^2 + \dots + x^n$$

37. a) Write a note on the basic concepts that support oops?

(OR)

b) What are the rules for operator overloading?

38. a) Explain the different types of inheritance?

(OR)

b) Write the output of the following

```

#include<iostream>
using namespace std;
class student
{
    int rno; marks;
    Public:
    Studnet (int r, int m)
    {
        cout <<"constructor"<<endl;
        rno=r;
    }
}
  
```


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```
marks = m;
}
void print det ( )
{
marks = marks + 30;
cout<<"Name: Bharathi" <<endl;
cout<<"Roll no:" <<rno<<"\n";
cout<<"Marks:"<<marks<<endl'
}
};
int main ( )
{
Student S(14,70);
S.Print det ( );
Cout<<"Back to Main";
return 0;
}
```

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