

FRS

XI - Std

Time : 3.00 Hrs

# FIRST REVISION TEST - 2023

## COMPUTER SCIENCE

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Marks : 70

SALEM

## PART - I

15 X 1 = 15

I Answer all questions :-

- NAND is called as ..... Gate  
a) Fundamental Gate    b) Derived gate    c) Logical Gate    d) Universal Gate
- The File management system used by Linux is  
a) ext 2    b) NTFS    c) FAT    d) NETS
- Which of the following is called as compile operator?  
a) size of    b) pointer    c) virtual    d) this
- Which of the following data type is not a fundamental type?  
a) signed    b) int    c) float    d) char
- The set of statements that are executed again and again in iteration is called as?  
a) Condition    b) Loop    c) statement    d) body of loop
- Which of the following is the scope operator?    a) >    b) f    c) %    d) ::
- Which of the following is properly defined structure?  
a) struct {int num ;}    b) struct sum {int num ;}    c) . struct sum int sum ;    d) struct sum {int num ;} ;
- The Mechanism by which the data and function are bound to gether into a single unit is known as  
a) Data Hiding    b) Encapsulation    c) Polymorphism    d) Abstraction
- Void dispchar (char ch = '\$', int size = 10)  
{  
  for (int i = 1 ; i <= size ; i++)  
  cout << ch ;  
}
- How will you invoke the function dispchar ( ) for the following input? to print \$ for 10 times.  
a) dispchar ( ) ;    b) dispchar (ch, size)    c) dispchar (\$, 10);    d) dispchar ('\$ ', 10 times);
- A class is derived from a class which is a derived class itself, then is refered to as  
a) Multiple inheritance    b) Multi level inheritance    c) Single inheritance    d) Double inheritance
- Which one of the following is the main memory?  
a) ROM    b) RAM    c) Flash drive    d) Hard disk
- Which refers to the numbers to bits processed by a computer's CPU?  
a) Byte    b) Nibble    c) Word Length    d) Bit
- Omitting details in essential to the task and representing only the essential features of the task is known as  
a) Specification    b) Abstraction    c) Composition    d) Decomposition
- How many times the loop is iterated?  
i = 0 ;  
while i 10  
i = i + i    a) 9    b) 10    c) 8    d) 0
- Which of the following operator is extraction operator in c++?    a) <<    b) >>    c) <>    d) ==

## PART - II

II Answer any 6 question question No. 24 is compulsory :-

6 X 2 = 12

- What are the component of a CPU?
- What is a multi user operating system?
- What is the use of setw ( ) format manipulator?
- Write short note on recursion?
- Write note on conditional operator in C++?
- What is meant by encryption and decryption?
- What are the main functions of the constructor?
- What is the syntax to declare two - dimensional array?
- What is meant by nested structure? Give an examples?

## PART - III

III Answer 6 questions, question No 33 is compulsory :-

6 X 3 = 18

- Write note on various types of parts in computer?
- Write note on TSCII?
- Difference between break and continue statements in C++?
- Write about string manipulation functions in C++?
- What are different types of constructors?
- Write about default argument in C++ functions with example.
- Write a note on Recycle bin?
- What are the memory representation of 2D array? and types?
- Write about some of the common ethical issues?

## PART - IV

5 X 5 = 25

IV

34.

**Answer all questions :-**

Write in detail about the characteristics of micro processor. (OR)

35.

Explain the fundamental gates with expression and truth table.

What is an entry control loop? Explain while loop with example? (OR)

36.

Write in detail about the following C++ function with general form and suitable example.

(1) isalnum ( ) (2) isdigit ( ) (3) tolower ( ) (4) pow ( ) (5) sqrt ( )

37.

Explain main features of object oriented programming with its advantages and disadvantages. (OR)

38.

What is operator overloading? What are the rules of operator overloading?

Write about Binary operators used in C++? (OR)

What are the various crimes happening using computer?

```
#include <iostream>
using namespace std ;
class seminar
```

```
{
    int time ;
    public :
    Seminar ( )
    { time = 30 ; cout << " seminar starts now" << endl ;
```

```
void Lecture ( )
```

```
{
    Cout << "Lectures in the seminar on" << endl ;
```

```
seminar (int duration)
```

```
{
    time - duration ;
    cout << "welcome to seminar" << endl ;
```

```
seminar (seminar fD)
```

```
{
    time = d, time ; cout << "Recap of Pervious
    Seminar content" << endl ;}
```

```
~ Seminar ( )
```

```
{
    Cout << "Vote of thanks" << endl ;}
```

```
int main ( )
```

```
    Seminar S1, S2 (2), S3 (S2) ;
    S1. lecture ( ) ;
    return 0 ;
```

(OR)

Debug the given C++ program to get the following output :

**Output :**

The width of the box is : 20  
The length of the box is : 67

**Program :**

```
#include <stream>
Using name space std ;
classes box
{
    double length ;
    public ::
    double length ;
    int print width { }
}
{
    cout << " In the width of the box is : "<< width ;
    cout << "In the length of the box is : ">> length ;
}
void set width (double w, l) :
}
void box? : set width (double w, double l)
{
    width = w ;
    length = l ;
}
int main ( )
{
    Box ob ;
    b. setwidth (67.0, 20.0)
    b. print width ( ) ;
    exit 0 ;
} ;
```