

Tsi11CS

Tenkasi District  
First Revision Examination - 2024



19-01-2024

Time: 3.00 Hours

**Standard 11**  
**COMPUTER SCIENCE**  
**Part - I**

Marks: 70

**Answer all the questions.****15x1=15**

**Choose the most appropriate answer from the given four alternatives and write the option code with the corresponding answer.**

- 1) Which generations of computer used IC's  
a) First                      b) Second                      c) Third                      d) Fourth
- 2) NAND is called as ..... Gate.  
a) Fundamental              b) Derived                      c) Logical                      d) Universal
- 3) What is the capacity of 12 cm diameter DVD with single sided and single layer?  
a) 50 GB                      b) 4.6 GB                      c) 700 MB                      d) 4.7 GB
- 4) The File management system used by Linux is  
a) FAT                      b) NTFS                      c) iOS                      d) ext2
- 5) Stating the input property and the input-output relation a problem is known  
a) statement                      b) specification                      c) Algorithm                      d) Definition
- 6) A Loop in variant need not be true  
a) At the start of the Loop                      b) At the Start of the algorithm  
c) At the start of each iteration                      d) At the end of each iteration
- 7) Which of the following operator is extraction operator in C++?  
a) >>                      b) <<                      c) <<<                      d) >>>
- 8) Which of the following is called as compile time operator?  
a) Pointer                      b) Virtual                      c) Size of                      d) this
- 9) How many types of iteration statments are in C++?  
a) 2                      b) 3                      c) 4                      d) 5
- 10) Which of the following header files defines the standard I/O predefined functions?  
a) stdio.h                      b) math.h                      c) ctype.h                      d) string.h
- 11) What will happen when the structure is declared?  
a) It will not allocate any memory                      b) it will allocate memory  
c) it will be declared and initialized                      d) it will only be declared
- 12) The variables declared inside the class are known as .....  
a) Data                      b) inline                      c) method                      d) attributes
- 13) Which of the following refers to a function having more than one distinct meaning?  
a) Operator overloading                      b) Function overloading  
c) Member overloading                      d) Class overloading
- 14) The type of inheritance that reflects the transitive nature is  
a) Single inheritance                      b) Multiple inheritance  
c) Multilevel inheritance                      d) Hybrid inheritance
- 15) Legal recognition for transaction are carried out by  
a) Electronic Data Exchange                      b) Electronic Data interchange  
c) Electronic Data Transfer                      d) Electrical Data interchange

**Part - II****Answer any six questions. Q.No. 24 is compulsory.****6x2=12**

- 16) What are the functions of an ALU?
- 17) What are the importance of void data type?
- 18) What is a program counter?
- 19) What is harvesting?
- 20) Define an Algorithm.
- 21) What is operator overloading?
- 22) What is Abstraction?
- 23) Differentiate an Alogirthm and Program
- 24) Write the 2's complement of the decimal number  $(-46)_{10}$

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## Part - III

Answer any six questions. Q.No. 33 is compulsory.

6x3=18

- 25) Explain about classification of Microprocessors based on Data Width.
- 26) write a note on User Defined Functions.
- 27) What are ethical issues? List some of them.
- 28) What is type conversion? Write short note on implicit type conversion.
- 29) What are the points to be noted while deriving a new class?
- 30) Write about three types of visibility mode.
- 31) What is an Array? What are its types?
- 32) Write a short note on pow() function in C++?
- 33) How to access members of a structure? Give example.

## Part - IV

Answer all the questions.

5x5=25

- 34) a) Explain the basic components of a computer with a neat diagram.  
(OR)
- b) Explain the concept of Distributed Operating System.
- 35) a) Explain the types of Errors in C++  
(OR)
- b) Explain scope rules of variables in C++ with example.
- 36) a) Explain the types of ROM  
(OR)
- b) Explain the versions of Window Operating System.
- 37) a) What is entry-controlled loop? Explain any one entry-controlled loop with syntax and suitable example.

(OR)

- b) Write the output of the following program

```
#include <iostream>
using namespace std;
class nest
{
    int x1;
    int square_num()
    {
        return x1*x1;
    }
public:
    void input_num()
    {
        cout<<"\n Enter the number";
        cin >> x1;
    }
    int cube_num()
    {
        return x1*x1*x1;
    }
    void disp_num()
    {
        int sq=square_num();
        int cu=cube_num();
        cout<<"\n The square of "<<x1<<" is " <<sq;
        cout<<"\n The cube of "<<x1 <<" is" <<cu;
    }
};
int main()
{
    nest n1;
    n1.input_num();
    n1.disp_num();
}
```

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- return 0;  
 }  
 38) a) Write a note on the basic concepts that supports OOPs?

(OR)

- b) Debug the following C++ program  
 Output

-----  
15

14

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Program:

-----  
%include(iostream.h)

#include &lt;conio.h&gt;

Class A

{

public;

int a1, a2, a3;

Void getdata[]

{

a1 = 15;

a2 = 13,

a3 = 13'

}

}

Class B :: public A()

{

PUBLIC

Voidfunc()

{

int b1 : b2 : b3;

A : : getdata[ ];

b1 = a1;

b2 = a2;

a3 = a3;

cout &lt;&lt; b1 &lt;&lt; '\t' &lt;&lt; b2 &lt;&lt; '\t' &lt;&lt; b3;

}

Void main ()

{

clrscr()

B der;

der1 : func ();

getch();

}

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