Tsi11CS

Tenkasi District
Common First Revision Test - January 2025

10-01-25

Standard 11
COMPUTER SCIENCE

Time Allowed: 3.00 Hours   Maximum Marks: 70

Part - A

Answer all the questions: **15×1=15**

1) Which one of the following tracks a user visits a website?
   a) spyware   b) cookies   c) worms   d) trojans

2) Which of the following derives a class student from the base class school?
   a) school : student   b) class student : public school
   c) student : public school   d) class school : public student

3) Which of the following operator cannot be overloaded?
   a) Size of   b) Scope operator
   c) Ternary operator   d) All the above

4) Which of the following access specifier protects data from inadvertent modification?
   a) private   b) protected   c) public   d) global

5) Insulation of data from direct access by the program is called as
   a) Data hiding   b) Encapsulation   c) Polymorphism   d) Abstraction

6) In Dev C++ the memory space allocated for an array int age[5] is
   a) 20 byte   b) 10 byte   c) 24 byte   d) 40 byte

7) Which is the return data type of the function prototype of add (int, int);?
   a) int   b) float   c) char   d) double

8) Which of the following for loop is empty loop?
   a) for (i=0; ; ++i)   b) for (i=0; i<=5; i++)
   c) for (i=0; i<=5; i++);   d) for (; ;)

9) Which of the following is not a data type modifier?
   a) signed   b) int   c) long   d) short

10) The extraction operator in C++ is
    a) >>   b) <<   c) <>   d) ^^

11) If C is false just before the loop the control flows through
    1 S1
    2 While C
    3 S2
    4 S3
    a) S1 ; S3   b) S1 ; S2 ; S3   c) S1; S2; S2; S3   d) S1; S2; S2; S3

12) The shortcut key used to rename file in windows
    a) F2   b) F4   c) F5   d) F6

13) Monitor and LCD projector are connected the computer through
    a) VGA connector   b) USB port   c) Ps/2 port   d) SCSI port

14) $A + \overline{A}.B =$
    a) $\overline{A}.B$ b) A+B   c) A   d) $\overline{A} + B$

15) The expansion of ENIAC
    a) Electronic Numerical Integrator and Calculator
    b) Electrical Numerical Integrator and Calculator
    c) Electronic Numerical Integrator and Calculation
    d) Electronic Numerical Integration and Calculation

Part - B

Answer any six questions. Question No. 24 is compulsory: **6×2=12**

16) Write the 1's complement procedure.
17) What is Boolean Algebra?
18) What is multi-processing?
19) Define loop invariant.
20) What is the use of void data type?
21) Write about strcpy() function.
22) Define Array.
23) Define software piracy.

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24) What is the size of the objects S1, S2?
```
class sum
{
    int n1, n2;
    public :
        void add ()
        {int n3 = 10; n1=n2=10;}
} S1, S2;
```

Part - C

Answer any six questions. Question number 33 is compulsory: 6×3=18

25) Write a short note on e-Governance.
26) What are the points to be noted while deriving a new class?
27) List some features of modular programming.
28) What are the information the prototype provides to the compiler?
29) Write the syntax and purpose of switch statement.
30) Write a short note on impact printer.
31) List out the key features of operating system.
32) Differentiate Application window and document window.
33) Convert $(8BC)_{16}$ into its equivalent Binary number.

Part - D

Answer all the questions: 5×5=25

34) Explain the basic components of a computer with a neat diagram. **(OR)**
    Explain the process management algorithm in operating system.
35) Explain the fundamental gates with expression and truth table. **(OR)**
    Explain the different ways of finding files and folder.
36) Write the specifilfcation of an algorithm hypotenuse whose inputs are the length of the two shorter sides of a right angled triangle and the output is the length of the third side. **(OR)**
    Write about Binary operators in C++.
37) Explain the different types of inheritance. **(OR)**
    What are the rules for operator overloading?
38) What is Recursion? Write a program to find the factorial of the given number using recursion? **(OR)**
    What will be the output of the following program?
```
# include <iostream>
# include <conio>
using namespace std
class add
{
    int a, b;
    public :
        int sum;
        void getdata ( )
        {
        a=5;
        b=10;
        sum=a+b;
        }
} a1;
add a2;
int main ( )
{
add a3;
a1.getdata ( );
a2.getdata ( );
a3.getdata ( );
cout<<a1.sum;
cout<<a2.sum;
cout<<a3.sum;
return 0;}
```

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