

SECOND REVISION TEST - 2025**11** : Std**COMPUTER SCIENCE**

Time : 3.00 Hours

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Total Marks : 70

Part - I**Answer all the questions.**

15 x 1 = 15

- is an input device for signalling by hand, by way of pressing one or more switches.
(a) Touch screen (b) Scanner (c) Mouse (d) Keyer
- is the system of handling the character of Indian local languages.
(a) ASCII (b) EBCDIC (c) ISCII (d) TSCII
- Expansion of FAT is
(a) File Allotment Table (b) File Allocation Table (c) File Allocation Tab (d) Free Allocation Table
- Which windows version was designed to act as servers in network?
(a) Windows NT (b) Windows 95 (c) Windows 98 (d) None of the above
- An is a step-by-step sequence of statements to solve a problem.
(a) Data (b) Variable (c) Coding (d) Algorithm
- is a diagrammatic notation for representing algorithms.
(a) Algorithm (b) Variable (c) Flowchart (d) Decomposition
- must have at least one base case. (a) Iteration (b) Recursion (c) Variant (d) Decomposition
- Match the following and write the correct option.

<u>Tokens</u>	-	<u>examples</u>	<u>Answers:</u>
(1) Keyword	-	(a) =	(a) 1-d, 2-c, 3-b, 4-a
(2) Identifier	-	(b) NOT	(b) 1-c, 2-b, 3-a, 4-d
(3) Logical operator	-	(c) total_marks	(c) 1-b, 2-a, 3-d, 4-c
(4) Assignment operator	-	(d) while	(d) 1-a, 2-b, 3-c, 4-d
- The literal meaning for void is
(a) Condition (b) Operators (c) Recursion (d) empty space
- control statement is used to transfer the control from one place to another place.
(a) break (b) continue (c) go to (d) None of the above
- The file scope variable is also called as variable.
(a) local (b) global (c) class (d) None of the above
- Structure is declared using the keyword (a) struct (b) class (c) array (d) void
- is the good feature for data redundancy.
(a) class (b) function (c) polymorphism (d) inheritance
- A constructor having a reference to an already existing object of its own class is called constructor.
(a) file (b) class (c) copy (d) none of the above
- is the familiar tamil keyboard layouts that works in Smart phone.
(a) e-kalappai (b) sellinam (c) lippicor (d) none of the above

Part - II**Answer any six questions. Question No.24 is compulsory.**

6 x 2 = 12

- What is a computer?
- Write a truth table for XNOR gate.
- What are the building blocks of an algorithm.
- Write about strlen () function.
- What is polymorphism.
- What is TSCII?
- What is cybercrime?
- What are the types of errors?
- List the three levels of securities provided by an operating system?

Part - III**Answer any six questions. Question No. 33 is compulsory.**

6 x 3 = 18

- Define operating system and write the types of operating system?
- Convert $(25F)_{16}$ into its equivalent Binary number.
- Find 2's Complement for $(-24)_{10}$

11 CS EM P-1

28. Evaluate the following C++ expressions where x, y, z are integers and m, n are the floating point numbers. (If $x = 1$, $y = 1$ and $m = 1.0$)
 (i) $n = x + y / x$; (ii) $z = m * x + y$; (iii) $z * = x * m + x$;
 29. Write the syntax of switch statement.
 30. Write a notes on Implicit call and Explicit call.
 31. What do you mean by Overriding / Shadowing?
 32. Define Data and Information.
 33. Write a C++ program to find the area of the rectangle. ($\text{area} = l * b$)

Part - D**Answer all the questions.**

5 x 5 = 25

34. (a) Explain the following.
 (i) Inkjet Printer (ii) Multimedia Projector (iii) Bar Code / QR Code Reader **(OR)**
 (b) Arrange the memory devices in ascending order based on the access time.
 35. (a) Explain Call by Value with suitable example. **(OR)**
 (b) A single-square-covered board is a board of $2^n \times 2^n$ squares in which one square is covered with a single square tile. Show that it is possible to cover this board with triominoes without overlap.
 36. (a) Trace the step-by-step executes of the algorithm for factorial (4).
 factorial (n).
 -- inputs : n is an integer, $n \geq 0$
 -- outputs : $f = n!$
 $f, i := 1, 1$
 while $i \leq n$
 $f, i := f \times i, i + 1$ **(OR)**
 (b) What are the rules for operator overloading?
 37. (a) Explain briefly about Class Access Specifiers. **(OR)**
 (b) Write a C++ Program to find the difference between two Matrix.
 38. (a) Write the different types of Cyber Attacks. **(OR)**
 (b) Write the output of the following C++ program.

```
#include<iostream>
using namespace std;
class add
{
    int a, b;
    public :
    int sum;
    void getdata()
    {
        a = 5;
        b = 5;
        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;
}
```