

11 - STD**SECOND REVISION TEST - 2024**

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Time : 3.00 Hrs

COMPUTER SCIENCE

MARKS : 70

- I. Choose the correct answer following questions 15 x 1 = 15
- First generation computer used _____ **YouTube/ Akwa Academy**
a) Vaccum tubes b) Transistors c) Integrated circuits d) Microprocessors
 - Which is a basic electronic circuit which operates on one or more signals ?
(A) Boolean algebra (B) Gate (C) Fundamental gates (D) Derived gates
 - How many memory locations are identified by a processor with 8 bits address bus at a time?
(a) 28 (b) 1024 (c) 256 (d) 8000
 - Which is the default folder for many Windows Applications to save your file?
a). My Document b). My Pictures c). Documents and Settings d). My Computer
 - Omitting details inessential to the task and representing only the essential features of the task is known as
(a) specification (b) abstraction (c) composition (d) decomposition
 - 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 of the following operator returns the size of the data type?
(a) sizeof () (b) int () (c) long () (d) double ()
 - Which of the following is called entry control loop?
(A) do-while (B) switch (C) while (D) if-else
 - Which function begins the program execution ?
A) isalpha() B) isdigit() C) main() D) islower()
 - cin>>n[5]; To which element does this statement accept the value? a) 3 b) 6 c) 4 d) 5
 - State whether the following statements about the constructor are True or False.
i) constructors should be declared in the private section.
ii) constructors are invoked automatically when the objects are created.
(A) True, True (B) True, False (C) False, True (D) False, False
 - Which of the following is not true with respect to function overloading?
(A) The overloaded functions must differ in their signature.
(B) The return type is also considered for overloading a function.
(C) The default arguments of overloaded functions are not considered for Overloading.
(D) Destructor function cannot be overloaded.
 - The type of inheritance that reflects the transitive nature is
(A) Single Inheritance (B) Multiple Inheritance
(C) Multilevel Inheritance (D) Hybrid Inheritance
 - Stealing tiny amounts of money from each transaction
(A) Malware (B) Harvesting (C) Scam (D) Salami slicing
 - A computer network security that monitors and controls incoming and outgoing traffic is
a.) Cookies b).Virus c). Firewall d). worms
- II. Answer any 6 of the following (Question No. 24 is compulsory) 6 x 2 = 12
- Distinguish Primary and Secondary memory ?
 - Write short note on ISCII ?
 - What is GUI?
 - What are binary operators ? Give examples of arithmetic binary operators ?
 - Write a while loop that displays numbers 2, 4, 6, 8.....20.
 - Write a note on Local Scope ?
 - Differentiate classes and objects ?
 - List the operators that cannot be overloaded ?
 - Write a short note on cracking ?
- III. Answer any 6 of the following (Question No. 24 is compulsory) 6 x 3 = 18
- What is an input device? Give two examples ?
 - Write down the interfaces and ports available in a computer ?
 - Write a short note about Tamil Programming Language ?
 - When do you say that a problem is algorithmic in nature?
 - Discuss the benefits of constructor overloading ?
 - What is the difference between isupper() and toupper() functions ?
 - Write the syntax and purpose of switch statement ?
 - Write the two ways to create a new folder ?

33. Write a while loop that displays number 2,4,6,8, 20

IV. Answer all Questions

5 x 5 = 25

34. a) Explain the following

- a. Inkjet Printer b. Multimedia projector c. Bar code / QR code Reader (OR)
b) Explain the characteristics of a microprocessor.?

35. a) Explain the different ways of finding a file or Folder ? (OR)

- b) What is meant by a token? Name the token available in C++ ?

36. a) Explain control statement with suitable example ? (OR)

- b) Explain Call by value method with suitable example ?

37. a) What are the rules for function overloading? (OR)

- b) Write the output of the following program?

```
#include <iostream>
using namespace std;
int main()
{
    char dev [5] [10] = { "monitor",
    "speaker", "printer", "scanner" "Key Board"};
    for (int i=0; i<5; i++)
        cout << dev[i]<<"\n";
}
```

38. a) What are the various crimes happening using computer? (OR)

- b) Correct the error of the following program

```
include <iostream>
using namespace std
CLASS complex
{
    int real,img;
PUBLIC:
    void read()
    {
        Cout>>"\nEnter the REAL PART : "
        cin>>real;
        cout>>"\nEnter the IMAGINARY PART : "
        cin>>img;
    }
    complex operator (complex c2)
    {
        complex c3;
        c3.real=real+c2.real;
        c3.img=img+c2.img;
        return c3;
    }
    void display
    {
        Cout>>real<<"+"<<img<<"i";
    }
};
VOID MAIN()
{
    complex c1,c2,c3;
    int choice, cont;
    cout<<"\nEnter the First Complex Number"
    c1read();
    cout<<"\nEnter the Second Complex Number"
    c2read();
    c3=c1+c2;
    cout<<"\n SUM = ";
    c3.display()
    return
};
```