

A**COMMON HALF YEARLY EXAMINATION - 2025****Standard - XI****Time: 3.00 hrs****COMPUTER SCIENCE****Marks:70****PART - A****I. Choose the correct answer.****15x1=15**

1. When a system restarts which type of booting is used _____
a) Warm booting b) Cold booting c) Touch boot d) Real boot
2. How many bytes does 1 kilo Byte contain?
a) 1000 b) 8 c) 4 d) 1024
3. Which is the fastest memory?
a) Hard disk b) Main memory c) Cache memory d) Blue-Ray disc
4. An example for single task operating system is _____
a) Linux b) Windows c) Ms-Dos d) Unix
5. Which is the default folder for many windows Applications to save your file?
a) My Document b) My Pictures c) Document and Setting d) My Computer
6. Stating the input property and the input- output relation a problem is known _____
a) Specification b) Statement c) algorithm d) definition
7. Who coined C++?
a) Rick Mascitti b) Rick Bjarne c) Bill Gates d) Dennis Ritchie
8. The multi way branch statement _____
a) if b) if .. else c) Switch d) for
9. Which function begins the program execution?
a) isalpha() b) isdigit() c) main() d) islower()
10. By default, a string ends with which character?
a) \0 b) \t c) \n d) \b
11. Which of the following is the most important advantage of inheritance?
a) data hiding b) code reusability c) code modification d) accessibility
12. Which of the following access specifier protects data from inadvertent modification?
a) Private b) Protected c) Public d) Global
13. Which of the following reduces the number of comparisons in a program?
a) Operator overloading b) Operations overloading c) Function overloading d) Member overloading
14. A class without any declaration will have _____ size.
a) 2 bytes b) 1 byte c) 3 bytes d) 5 bytes
15. The process of converting cipher text to plain text is called _____
a) Encryption b) Decryption c) Key d) Proxy server

PART - B**II Answer any six questions. Question No. 24 is Compulsory.****6x2=12**

16. Write the functions of control unit?
17. What is multi - processing?
18. Define a loop invariant?
19. What are importance of void data type?
20. What is Traversal in an Array?
21. What is the difference between the class and object in terms of oop?
22. List the operators that cannot be overloaded?
23. What is TSCII?
24. What is the output of the following code?
for (int i=2; i<=10; i+=2)
 cout<<i;

(2)

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PART - C

II Answer any six questions. Question No. 33 is Compulsory.

6x3=18

25. Classify the micro processor based on the size of the data?
26. Convert $(150)_{10}$ into Binary, then convert that Binary number to Octal.
27. What is case analysis?
28. Differentiate "=" and "=="?
29. Define an Array? What are the types?
30. Define information hiding?
31. What are the points to be noted while deriving a new class?
32. What are ethical issues? Name some.
33. Write short note on Pow() function in C++.

PART - D

IV Answer all the following questions.

5x5=25

34. a) Discuss the various generations of computers. (OR)
- b) Explain the fundamental gates with expression and truth table. (OR)
35. a) Explain the characteristics of a microprocessor? (OR)
- b) Explain the different ways of finding a file or folder? (OR)
36. a) What are the types of Errors? (OR)
- b) Explain the control statement with suitable one example? (OR)
37. a) What are the advantages of OOPS? (OR)
- b) Mention the differences between constructor and destructor. (OR)
38. a) What are the rules for operator overloading? (OR)
- b) Debug the following program

```
% include (iostream.h)
# include <conio.h>
Class A()
{
    Public;
    int a1, a2, a3;
    Void get data [ ]
    {
        a1=15;
        a2=13;
        a3=13;
    }
}
```

```
Class B :: Public A ( )
```

```
{
    .PUBLIC
    Void func ( )
    {
        int b1; b: b3;
        A:: get data [ ] ;
        b1 = a1 ;
        b2 = a2 ;
        a3 = a3 ;
        cout << b1 << '\t' << b2 << '\t' << b3 ; }
}
```

```
void main ( )
```

```
{
    B der ;
    der1 : func. ( ) ;
}
```

***/**