

HSS

HALF YEARLY EXAMINATION - 2024**XI** - Std**COMPUTER SCIENCE**

Time : 3.00 Hrs

SALEM Marks : 70

Part - I**Answer all the questions.****15 X 1 = 15**

1. Output device is used for printing building plan.
(a) Thermal printer (b) Plotter (c) Dot matrix (d) inkjet printer
2. How many characters can be handled in Binary Coded Decimal System?
(a) 64 (b) 255 (c) 256 (d) 128
3. 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
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) Documents and Settings (d) My Computer
6. Which of the following operator returns the size of the data type?
(a) sizeof () (b) int () (c) long () (d) double ()
7. How many times the following loop will execute? for (int i=0; i<10; i++)
(a) 0 (b) 10 (c) 9 (d) 11
8. Which of the following is the scope operator ?
(a) > (b) & (c) % (d) ::
9. int age[]={6,90,20,18,2}; How many elements are there in this array?
(a) 2 (b) 5 (c) 6 (d) 4
10. The variables declared inside the class are known as
(a) data (b) inline (c) method (d) attributes
11. Which of the following refers to a function having more than one distinct meaning?
(a) Function overloading (b) Member overloading
(c) Operator overloading (d) Operations overloading
12. Which amongst the following is executed in the order of inheritance?
(a) Destructor (b) Member function (c) Constructor (d) Object
13. Which of the following is not a malicious program on computer systems?
(a) worms (b) Trojans (c) spyware (d) cookies
14. If i = 5 before the assignment i := i-1 after the assignment, the value of i is
(a) 5 (b) 4 (c) 3 (d) 2
15. Which gate is called as the logical inverter?
(a) AND (b) OR (c) NOT (d) XNOR

PART - II**Answer any 6 questions. Question no 24 is compulsory.****6 X 2 = 12**

16. Distinguish between data and information.
17. What is a program counter?

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18. How will you Rename a File?
19. What is meant by a token? Name the token available in C++
20. Write about strlen() function.
21. What is the syntax to declare two - dimensional array.
22. What is polymorphism?
23. What is TSCII?
24. Write the output of the following c++ program

```
#include <iostream>
using namespace std;
int main()
{
  double varf=178.25255685;
  cout << (float) varf << endl;
  cout << (int) varf << endl;
}
```

PART - III

Answer any 6 questions. Question no 33 is compulsory.

6 X 3 = 18

25. Add a) $-22_{10} + 15_{10}$ b) $20_{10} + 25_{10}$
26. Differentiate copy and move
27. Why is main function special?
28. What is the difference between isupper() and toupper() functions?
29. Define an Array? What are the types?
30. What are the rules for function overloading?
31. What are the points to be noted while deriving a new class?
32. Write about encryption and decryption.
33. Write the output of the following c++ program

```
#include<iostream>
using namespace std;
int main( )
{ char colour [4][10]={"Blue","Red","Orange", "yellow"};
  for (int i=0; i <4; i++)
  cout << colour [i] << "\n"; }
```

PART - IV

Answer all the questions

5 x 5=25

34. Explain the basic components of a computer with a neat diagram.. (or)
Explain the logical gates with expression and truth table.
35. Explain the types of ROM. (or)
Explain the process management algorithms in Operating System.
36. What are the types of Errors?. (or)
What is an entry control loop? Explain any one of the entry controlled loop with suitable example.
37. Explain scope of variable with example. (or)
Write a note on the basic concepts that supports OOPs?
38. Write the different types of cyber attacks. (or)
Explain the different types of inheritance