Dn A vennila - Prinupal - Mydeen Hatric Hn. Sec School.

Thanjavur District

HALF YEARLY EXAMINATION - 2024

S	Т	D	:	XI

# **COMPUTER SCIENCE**

Т	IME: 3.00 HRS TOTAL MARKS: 70
N	ote:(1) Answer all the questions (ii)choose the most appropriate answer from the given four
aı	ternatives and write the option code and the corresponding answer.
	PART I 15 * 1 = 15
1.	and the following is used to in ATM machines
2.	(a) Fouch Screen (b) speaker (c) Monitor (d) Printer
۷.	(a) 1000
3.	(0) (0) (0)
	the following Go is a Commercially licensed Operating system?
4	(a) LEDIN
	(a) F2 (b)F4 (c)F5 (d) F6
5.	(0)10
	task is known as
	(a) specification (b) abstraction (c) composition (d) decomposition
6.	Who developed C++?
	(a) Charles Babbage (b) BjarneStroustrup (c) Bill Gates (d) Sundar Pichai
7.	The multi way branch statement:
	(a) if (b) if else (c) switch (d) for
8.	and the shoot whether a character is alphanument of flot.
	(a) isalpha() (b) isdigit() (c) isalnum() (d) islower()
9.	y and any a state with which originately
4.	(a)\0 (b)\t (c)\n (d)\b
70	). "Write once and use it multiple time" can be achieved by
	(a) redundancy (b) reusability (c) modification (d) composition
	The member function defined within the class behave like functions
10	(a) inline (b) Non inline (c) Outline (d) Data
12	Which of the following reduces the number of comparisons in a program?
	(a) Operator overloading (b) Operations overloading
12	(c) Function Overloading (d) Member overloading  Which amongst the following is executed in the order of inheritance?
13	
11	(a) Destructor (b) Member function (c) Constructor (d) Object  Which one of the following are self-repeating and do not require a computer program to
14	attach themselves?
15	
15	What is the capacity of 12cm diameter DVD with single sided and single layer?  (a) 4.7 GB  (b) 5.5 GB  (c) 7.8GB  (d) 2.2 GB
	(a) 4.7 GB (b) 5.5 GB (c) 7.8GB (d) 2.2 GB
_	
An	swer any 6 questions. Question no 24 is compulsory.  6X2 = 1
	What are the components of a CPU?
17	What is an instruction?

- 18. What is multi-processing?
- 19. Differentiate Save and save As option.
- 20. What is meant by a token? Name the token available in C++.
- 21. Compare an if and a ? : operator
- 22. What is importance of void data type?
- 23. List the operators that cannot be overloaded.
- 24. Write a short note on cracking.

#### PART III

# Answer any 6 questions. Question no 33 is compulsory.

6X3 = 18

- 25. Write a note on Recycle bin.
- 26. Why is main function special?
- 27. Write the syntax and purpose of switch statement.
- 28. What are the information the prototype provides to the compiler?
- 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 x=45;
int main()
{
  int x = 10;
  cout<< "\nValue of global x is " << ::x;
  cout<< "\nValue of local x is " << x;
  return 0;
}</pre>
```

### PART IV

### Answer all the questions,

5x5 = 25

34. Discuss the various generations of computers. (OR)

Convert the following number:

```
(i) (126)_{10} = ( )<sub>2</sub> (ii) (11010110)2 = ( )<sub>8</sub> (iii) (111011)2 = ( )<sub>10</sub> (iv) (6213)8 = ( )<sub>2</sub> (v) (25F)16 = ( )<sub>10</sub>
```

35. Explain the characteristics of a microprocessor (OR)

List out the points to be noted while creating a user interface for an Operating system.

- 36. Explain the versions of Windows Operating System. (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 support OOPs?
- 38. Mention the differences between constructor and destructor (OR)

  Explain the different types of inheritance.

  HSK 11 CS EM 2