

**B. SC. 2ND YEAR, 1ST SEMESTER EXAMINATION, 2023**

**Subject : COMPUTER C++**

**Time : 1 Hour 30 Minutes**

**Full Marks : 30**

Question 1 is mandatory and attempt any Two (2) from the rest of the Questions.

All questions carry equal marks.

1. Write the correct option for each of the following questions.

10x1

(i) Which one of the following given statements is correct about the increment operator?

- a. Increment operator(or ++ ) usually adds 2 to its operand
- b. Decrement operator ++ subtracts 1 to its operand
- c. Decrement operator ++ subtracts 3 to its operand
- d. Increment operator (or ++ ) usually adds 1 to its operand

(ii) What is the correct syntax of 'for' loop?

- a. for (initialization; condition; updation) { /\* body \*/ }
- b. for (updation; condition; initialization) { /\* body \*/ }
- c. for (initialization, condition, updation) { /\* body \*/ }
- d. None of the above

(iii) Which of the following is the correct syntax for printing the address of the first element?

- a. array[0];
- b. array[1];
- c. array[2];
- d. None of the above

(iv) Which function is used to read a single character from the console in C++?

- a. cin.get(ch)
- b. getline(ch)
- c. read(ch)
- d. scanf(ch)

(v) Which of the following is the proper syntax for declaring an int array?

- a. init array
- b. int array[5];
- c. array[int, 5];
- d. array = [];

[ Turn Over

(vi) What is the output of the given program?

```
#include <stdio.h >
using namespace std;
int main()
{
int array[] = {10, 20, 30};
cout << -2[array];
return 0;
}
```

- a. -15
- b. -30
- c. Compiler error
- d. Garbage value

(vii) What is the Output of the following code?

```
#include<iostream>
using namespace std;
int fun(int x = 0, int y = 0, int z)
{ return (x + y + z); }
int main()
{
cout << fun(10);
return 0;
}
```

- a. 10
- b. 0
- c. 20
- d. error

(viii) Which of the following operators has the highest precedence?

- a. +
- b. -
- c. ++
- d. /

(ix) Fill in the blanks in order: By default the members of a class are \_\_\_\_\_ and the members of a struct are \_\_\_\_\_.

- a. public, public
- b. public, private
- c. private, public
- d. private, private

(x) Static variables declared in a class are also called \_\_\_\_\_.

- a. instance variables
- b. named constants
- c. global variables
- d. class variables

2. What are the different Classes? Write differences among those Classes. 2+8
3. What is Control Construct? Describe three control constructs. 1+9
4. Write difference between Utility functions and Access functions. 10
5. Write a short note. 2x5
  - a) Constructor
  - b) Destructor