

FOR THE STUDENTS ADMITTED

24UCS101

DURING THE ACADEMIC YEAR 2024 ONLY)

REG.NO. :

**N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI**  
**END-OF-SEMESTER EXAMINATIONS : NOVEMBER- 2024**

**BSC CS (AIDED & SF)**

**MAXIMUM MARKS: 75**

**SEMESTER : I**

**TIME : 3 HOURS**

**PART - III**

**24UCS101- C++ PROGRAMMING**

**SECTION – A**

**(10 X 1 = 10 MARKS)**

**ANSWER THE FOLLOWING QUESTIONS.**

**(K1)**

1. C++ is \_\_\_\_\_
  - a) procedural programming language
  - b) object oriented programming language
  - c) functional programming language
  - d) both procedural and object oriented programming language
2. Default arguments are \_\_\_\_\_
  - a) allowed in the parameter list of the function declaration
  - b) allowed in the return type of the function declaration
  - c) allowed with the class name definition
  - d) allowed with the integer type values.
3. \_\_\_\_\_function is designed to copy object of same class type.
  - a) Create constructor
  - b) Object constructor
  - c) Copy constructor
  - d) Dynamic constructor
4. \_\_\_\_\_is designed to be specifically used as a base class.
  - a) abstract class
  - b) derived class
  - c) Child class
  - d) Sub class
5. \_\_\_\_\_stream class is to only write on files.
  - a) ofstream    b) ifstream    c) fstream    d) iostream

**ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES**

**(K2)**

6. Mention any two Manipulators.
7. Define Class and Object.
8. What is Type Conversion.

9. What is the use of this pointer?
10. Define C++ Streams.

**SECTION – B****(5 X 5 = 25 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)**

11. a) List down the benefits of OOP.

**(OR)**

- b) Sketch the Basic Structure of C++.

12. a) Interpret the Inline Function with example.

**(OR)**

- b) Examine the Array of Objects.

13. a) Describe the Copy Constructor with example.

**(OR)**

- b) Determine the Unary Operator.

14. a) Describe the Multilevel Inheritance.

**(OR)**

- b) Examine the Virtual Base Class.

15. a) Describe the File Stream Classes.

**(OR)**

- b) Interpret the Exception Handling Mechanism.

**SECTION – C****(5 X 8 = 40 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K4 (Or) K5)**

16. a) Classify the types of Operators in C++. **(OR)**

- b) Evaluate the Control Structures.

17. a) Discuss the Function Overloading with example. **(OR)**

- b) Summarize the Friend Functions.

18. a) Discuss the Constructor and Destructor. **(OR)**

- b) Determine the rules for Operator Overloading.

19. a) Summarize the Multiple Inheritance. **(OR)**

- b) Discuss the Virtual Functions.

20. a) Evaluate the File Handling in C++. **(OR)**

- b) Summarize the Error handling during File operations.

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**ETHICAL PAPER**