

FOR THE STUDENTS ADMITTED

24UCS101

DURING THE ACADEMIC YEAR 2024 ONLY)

REG.NO. :

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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.

EHTICAL PAPER