(FOR THE CANDIDATES ADMITTED DURING THE ACADEMIC YEAR 2022-23 ONLY)

SUBJECT CODE 22 UEC 308

REG.NO.

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS : NOVEMBER – 2023

B.Com. – E.COMMERCE **MAXIMUM MARKS: 50**

III SEMESTER **TIME : 3 HOURS**

PART – III
OBJECT ORIENTED PROGRAMMING WITH C++

SECTION – A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS. **(K1)**

(MULTIPLE CHOICE QUESTIONS)

1. What is the primary purpose of encapsulation and data abstraction in object-oriented programming (OOP)?

   (a) To hide the implementation details of a class
   (b) To create multiple instances of a class
   (c) To enable dynamic binding
   (d) To perform arithmetic operations

2. Which keyword is used to specify that a function argument cannot be modified within the function?

   (a) mutable (b) const (c) static (d) volatile

3. Which of the following statements is true about operator overloading in C++?

   (a) Operators cannot be overloaded in C++.

   (b) Operator overloading allows you to change the number of arguments a function takes.

   (c) Operator overloading allows you to redefine the behavior of operators for user-defined types.

   (d) Operator overloading is limited to arithmetic operators only.

4. What is a "Pure Virtual Function" in C++?

   (a) A function that has a pure numeric value as its return type
   (b) A function that cannot be overridden in derived classes
   (c) A function that is not defined in the base class
   (d) A function that must be overridden by any derived class

5. Which stream class in C++ is associated with file input operations?

   (a) ifstream (b) ofstream (c) fstream (d) ostrstream

(CONTD …….. 2)

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES. (K2)

6. Write any two applications of OOPs
7. What is use of default arguments in C++?
8. Where can single inheritance be used?
9. List two uses of arrays in C++
10. How can a file be opened in protected mode or read only mode in C++?

SECTION – B (5 X 3 = 15 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.

(K3)

11. a) Show how message communication is performed in C++

(OR)

b) Demonstrate on classes and objects.

12. a) Illustrate operators in C++ .

(OR)

b) Interpret declaring datatypes in C++ .

13. a) Write a short note on function overloading .

(OR)

b) Demonstrate how friend function can be used in C++

14. a) Elucidate virtual functions in C++

(OR)

b) Show how hybrid inheritance can be performed in C++

15. a) Illustrate input stream in C++.

(OR)

b) Demonstrate how opening and closing a file can be done in C++

SECTION – C (5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.

(K4 (Or) K5)

16. a) Compare and contrast various popular OOPs languages.

(OR)

b) Examine how encapsulation and data abstraction can be performed in C++ .

17. a) Outline the control structures used in C++ .

(OR)

b) Dramatize inline function in C++.

18. a) Demonstrate constructors with Default Arguments.

(OR)

b) Explain operator overloading in C++.

19. a) Examine multiple inheritance and multilevel inheritance in C++.

(OR)

b) Compare and contrast on public, private and protected keywords used in C++.

20. a) Dramatize classes of file stream operations.

(OR)

b) Explain managing console operations in C++.

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