(FOR THE CANDIDATES ADMITTED

 DURING THE ACADEMIC YEAR 2022 ONLY)

22UBC204

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI
END-OF-SEMESTER EXAMINATIONS : MAY-2023
COURSE NAME: B.C.A   MAXIMUM MARKS: 50
SEMESTER: II   TIME : 3 HOURS

PART - III

OBJECT ORIENTED PROGRAMMING WITH C++

SECTION – A   **(10 X 1 = 10 MARKS)**

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

1. In C++,which header file should be included at the beginning for all program that use input/output statement?
    a) iostream.h   b) stdio.h   c) conio.h   d) math.h

2. Which of the following operator is used for dereferencing or indirection?
    a) *   b) &   c) →   d) -> >

3. If an argument to a function is declared as const, then _____ .
    a) Function can't modify the argument.   b) const argument to a function is not possible.
    c) function can modify the argument.   d) None of these

4. A pointer can be initialized with_____.
    a) NULL   b) Zero   c) Address of an object of same type   d) All the above

5. .----------------is the return type of is_open() function .
    a) int   b) boolean   c) float   d) char

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

6. Define an object.
7. Recall Tokens
8. What is the use of destructor?
9. Mention the purpose of reusability in C++.
10. Write any four file modes .

SECTION – B   **(5 X 3 = 15 MARKS)**

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a)   Identify the various steps involved in Object Oriented Analysis.
                                (OR)
    b)   Compute the various applications of OOP.

12. a)   Design a program to enter age and display a message whether the user is eligible for voting or not.
                                (OR)
    b)   Classify the different types of expression used in C++. Give an example. **(CONTD…2)**

13. a) Explain the concept of inline function with an example.

(OR)

b) How to construct function overloading in C++?

14. a) Describe **this** pointer with an example.

(OR)

b) Construct a program to illustrate the use of virtual functions in base class.

15. a) How to manage output with manipulator in C++? Give an example.

(OR)

b) Describe how to detect the end of file 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) Examine the basic concepts of Object Oriented Programming.

(OR)

b) Compare the difference between Procedure Oriented Programming and Object Oriented Programming.

17. a) Illustrate various types of operators in C++.

(OR)

b) Design a C++ program to find the biggest among two number using class and object.

18. a) Clarify in detail the concept of specifying a class and creating an object in C++ with an example.

(OR)

b) Explain and classify the various types of constructor in C++ with an example.

19. a) Summarize the various types of Inheritance in C++. Give an example.

(OR)

b) Write a program to access members of a STUDENT class using pointer to object members.

20. a) Elucidate formatted console I/O operation in C++ with an example.

(OR)

b) Write a C++ program to perform writing and reading the data content using file.

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ETHICAL PAPER