

NGM COLLEGE (AUTONOMOUS) POLLACHI

END-OF-SEMESTER EXAMINATIONS: MAY- 2023

B. Sc-COMPUTER SCIENCE (Aided & SF)

MAXIMUM MARKS: 50

II SEMESTER

TIME: 3 HOURS

PART - III

C++ PROGRAMMING

SECTION – A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

(K1)

1. Which of the following data type is supported in C++ but not in C ?
 - a. double
 - b. float
 - c. bool
 - d. int
2. Which concept do we use for the implementation of late binding?
 - a. Static Functions
 - b. Constant Functions
 - c. Operator Functions
 - d. Virtual Functions
3. What is a role of a constructor in classes?
 - a. To destroy an object
 - b. To call private functions from the outer world
 - c. To modify the data whenever required
 - d. To initialize the data members of an object when it is created
4. Which among the following best defines single level inheritance?
 - a. A class inheriting a derived class
 - b. A class inheriting a base class
 - c. A class inheriting a nested class
 - d. A class which gets inherited by 2 classes
5. What do we use in order to throw an exception?
 - a. try
 - b. catch
 - c. throw
 - d. finally

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. Define Tokens in C++.
7. Write the advantages of Function Overloading in C++
8. List any two rules for operator overloading.
9. Write the use of this pointer.
10. Mention the use of ofstream data types in iostream

SECTION – B (5 X 3 = 15 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.
(Qn. No. 11 to 15 Questions for Short Answers with internal choices) (K3)

11. a) List the Benefits and applications of object oriented program.
(OR)
b) Write syntax and explain if statement with simple example.
12. a) Define inline function with syntax.
(OR)
b) How to define a member function? Explain with syntax and example.
13. a) Write short notes on copy constructor.
(OR)
b) List the rules for operator overloading.
14. a) Write short notes on Single Inheritance.
(OR)
b) What is Printers? Write short notes on this pointer.
15. a) List and explain Unformatted I/O Operations in C++
(OR)
b) How do you Open and close file in C++? Explain with example.

SECTION – C (5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.
(Qn. No. 16 to 20 Questions for Long Answers with internal choices) (K4 (Or) K5)

16. a) Explain Basic Structure of C++ Program with example.
(OR)
b) Define Operator. Explain Arithmetic operator in C++ with suitable example.
17. a) Explain Friendly Function with example.
(OR)
b) Illustrate Arrays with in a class with example.
18. a) Define Constructor. Write a C++ program to demonstrate constructor.
(OR)
b) Write a C++ program to overload Unary + Operator for adding two complex numbers.
19. a) Define Multiple Inheritance? Write a C++ program to demonstrate Multiple Inheritance.
(OR)
b) Explain Virtual Functions with example.
20. a) Explain Command Line Arguments with example.
(OR)
b) Write a C++ program to demonstrate Exception Handling.
