

SUBJECT CODE **21 UCT 204**

REG.NO:

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

END-OF-SEMESTER EXAMINATIONS : JULY-2022

B.Sc. – COMPUTER TECHNOLOGY

MAXIMUM MARKS: 70

II SEMESTER

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. C++ follows _____ approach.
a) bottom-down b) bottom-up c) top-down d) top-up
2. A function which is expanded in a line and eliminates the cost of calls is called _____.
a) inline function b) static member function
c) friend function d) virtual function
3. A constructor has the same name as the _____.
a) Object b) Function name c) Keyword d) Class
4. How many types of polymorphism are supported by C++?
a) 1 b) 2 c) 3 d) 4
5. The stream that inserts data to the file is known as _____.
a) File stream b) Record stream c) Input stream d) Output stream

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES:

(K2)

6. How to declare and use Object in C++ ?
7. Write the general format of function prototype.
8. Define Destructor.
9. What is Null Pointer ?
10. What is file stream?

(CONTD.....2)

SECTION – B**(5 X 4 = 20 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)**

11. a) Describe the benefits of OOP.
(OR)
b) Sketch the C++ data types.
12. a) How will you create a class and objects in C++?
(OR)
b) Write short notes on array of objects.
13. a) Describe the copy constructors.
(OR)
b) Sketch the rules for overloading the operators.
14. a) Write short notes on Pointers to objects.
(OR)
b) Examine the Nesting of classes.
15. a) Describe the file opening modes in C++.
(OR)
b) Show the file pointers and manipulators in C++.

SECTION - C**(4 X 10 = 40 MARKS)****ANSWER ANY FOUR OUT OF SIX QUESTIONS:****(K4/K5)****(16th QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS:**

16. Discuss in detail the basic concepts of OOP.
17. Explain the control structures in C++.
18. Discuss elaborately about function overloading in C++.
19. Explain operator overloading concepts in C++ with suitable examples.
20. What are the types of inheritances? Explain with syntax, programme & output.
21. Discuss in detail about the formatted console IO operations in C++.