

(FOR THE CANDIDATES ADMITTED

25UCI205

DURING THE ACADEMIC YEAR 2025 ONLY)

REG.NO. :

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

END-OF-SEMESTER EXAMINATIONS : MAY 2026

BCOM IT

MAXIMUM MARKS: 75

SEMESTER: II

TIME : 3 HOURS

PART - III

25UCI205 – C++ PROGRAMMING

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

(K1)

1. Which statement is used for decision making in C++?
A) for B) while C) if D) goto
2. Which keyword is used to declare a friend function?
A) friend B) static C) public D) virtual
3. Which operator cannot be overloaded in C++?
A) + B) - C) :: D) *
4. Which of the following is the correct syntax for an array of five objects of class Student?
A) Student s[5]; B) Student[5] s; C) s Student[5]; D) Student s();
5. Which of the following is a file output stream class in C++?
A) ifstream B) ofstream C) fstream D) iostream

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. Write the syntax of the if statement.
7. Define member function.
8. Define operator overloading in C++.
9. Define this pointer.
10. Write down the list of filestream classes in C++.

SECTION – B

(5 X 5 = 25 MARKS)

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

11. a) Describe the data types and variables with examples.
(OR)
b) Examine the advantages of inline functions.
12. a) Describe static data members and static member functions.
(OR)
b) Explain the syntax of an array of object with an example.

(CONT...2)

13. a) Examine the concepts unary and binary operator overloading.

(OR)

b) Explain the concept of virtual base class? and justify its need.

14. a) Describe the an array of objects? Write the syntax to declare an array of five objects of class Student

(OR)

b) Compare the new and delete operators in C++.

15. a) Interpret the concepts of sequential and random access file operations.

(OR)

b) Demonstate how to declare and initialize a string object in C++?

SECTION – C

(5 X 8 = 40 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K4 (Or) K5)

16. a) Explain the basic concepts of Object-Oriented Programming and its key concepts.

(OR)

b) Examine function overloading with suitable examples.

17. a) Explain bitfields in C++ and discuss their advantages.

(OR)

b) Classify the different types of constructors in C++.

18. a) Classify the different types of inheritance in C++.

(OR)

b) Explain the concept of type conversion in C++.

19. a) Illustrate how a base class pointer can point to a derived class object.

(OR)

b) Discuss the virtual functions in C++ in detail.

20. a) Examine the concept of binary and ASCII files.

(OR)

b) Discuss the string attributes and miscellaneous functions in C++.

Ethical paper