F–6219	Sub. Code
	7BCEA4

U.G. DEGREE EXAMINATION, NOVEMBER 2021

Computer Science

Allied : PROGRAMMING IN C++

(CBCS – 2017 onwards)

Time : 3 Hours Maximum : 60 Marks

Part A (10 × 1.5 = 15)

Answer **all** questions.

1. What are identifiers?

2. Define symbolic constants and Give two examples for symbolic constants.

3. What are static data members?

4. State the role of destructors in C++ programs.

5. Define operator overloading and List two operators that cannot be overloaded.

6. What is virtual base class?

7. State the significance of 'this' pointer.

8. What are stream classes?

9. What are file pointers? How do you declare a file pointer in C++?

10. Why are class templates created?

Part B (5 × 3 = 15)

Answer **all** questions, choosing either (a) or (b).

11. (a) Distinguish between basic and user defined data types.

Or

(b) Explain implicit conversion in C++ with an example.

12. (a) Describe an array of objects with an example.

Or

(b) Explain copy constructor with an example.

13. (a) List the rules for operator overloading.

Or

(b) Describe the role of constructors in derived class.

14. (a) Explain any two unformatted I/O operations.

Or

(b) Explain any three output manipulators.

15. (a) Explain command line arguments with an example.

Or

(b) How is end of file detected in C++?

Part C (3 × 10 = 30)

Answer any **three** questions.

16. Explain function overloading with an example C++ program.

17. Describe the mechanism for passing objects as function arguments with a C++ program

18. Explain the types of inheritance in C++.

19. Explain virtual functions and pure virtual functions with examples.

20. Describe function templates with an example.
