**F–1732**

**Sub. Code**
**7BCEA4**

**U.G. DEGREE EXAMINATION, APRIL 2019**

**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 is the need for type cast operator?

2. What is symbolic constant?

3. What is static data member?

4. How is memory allocated for objects?

5. What is the purpose of overloading?

6. What is the advantage of inheritance?

7. Define pointers.

8. Define pure virtual function.

9. What are command-line arguments?

10. What is file pointer?

**Part B** (5 × 3 = 15)

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

11. (a) Explain about software evolution.

Or

(b) Explain logical and bit wise operators in C++.

12. (a) Explain static member functions.

Or

(b) Explain about parameterized constructor.

13. (a) Write a C++ program to overload binary + operator.

Or

(b) Write rules for overloading operators.

14. (a) Explain about pointers to derived classes.

Or

(b) Illustrate virtual function with an example.

15. (a) Explain about any six file operations.

Or

(b) Explain the role of file pointers.

**Part C** (3 × 10 = 30)

Answer any **three** questions.

16. Describe the basic concepts of object-oriented programming.

17. Explain friend function with an example.

18. Explain about multilevel and multiple inheritance.

19. Discuss managing output with manipulators.

20. Explain class template with an example.

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