

F-2648

Sub. Code

7BCA2C1

B.C.A. DEGREE EXAMINATION, NOVEMBER 2019

Second Semester

Computer Application

PROGRAMMING in C++

(CBCS – 2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What are the different types of expression available in C++?
2. Define Function.
3. What is the different between the static data member and non static data member?
4. What is a Destructor?
5. What is an abstract class?
6. Write down the C++ stream classes.
7. How will you open a file?
8. What is the difference between the text (ASCII) file and Binary file?
9. Write down the advantages of Function Template.
10. Write any four exception types.

Part B**(5 × 5 = 25)**

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

11. (a) Explain the basic concepts of Object Oriented Programming.

Or

- (b) Explain the do-while loop with an example.

12. (a) Explain Constructor with Default argument with an example.

Or

- (b) Explain Multiple Constructor in a Class with an example.

13. (a) Explain unformatted I/O operations.

Or

- (b) Explain Pointer to Derived class concept with an example.

14. (a) Explain the sequential input and output operations in a File with example.

Or

- (b) Explain the various file opening modes with example.

15. (a) Explain function template with an example.

Or

- (b) How will you use multiple arguments in function template? Explain with an example.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Explain any two branching statements in C++ with example.
 17. Write a C++ program to swap (interchange) a data member in two different classes using friend function.
 18. Explain virtual base class with a C++ program.
 19. Write a C++ program to store the students details(name, rollno, class, height, weight) in a binary file.
 20. Explain the Exceptions handling constructs with an example.
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