



SN – 659

III Semester B.C.A. Degree Examination, November/December 2017  
(CBCS) (F+R)

(2015 – 16 & Onwards)

BCA 303 : OBJECT ORIENTED PROGRAMMING USING C++

Time : 3 Hours

Max. Marks : 70

**Instruction :** Answer *all* the Sections.

SECTION – A

Answer **any ten** questions :

(10×2=20)

1. Explain manipulators in C++.
2. Describe static data members.
3. What is function prototype ?
4. What are access specifiers ?
5. Explain scope resolution operator in C++.
6. What is destructor ?
7. List out the operators which cannot be overloaded.
8. Define virtual base class.
9. What is the role of this pointer ?
10. What is an exception in C++ ?
11. What are input and output streams ?
12. Differentiate between seekg () and seekp() functions.

P.T.O.



## SECTION – B

Answer any five questions.

(5×10=50)

13. a) Explain basic concepts of OOPs in detail. 5  
b) Illustrate the use of function overloading with example. 5
14. a) What are inline functions ? Explain. 5  
b) Demonstrate the usage of classes and objects with any example. 5
15. a) Explain friend function with example. 5  
b) Describe types of constructors in detail. 5
16. a) Demonstrate the usage of unary operator overloading with an example. 5  
b) Explain data conversions in detail. 5
17. Explain various types of inheritances with suitable examples. 10
18. a) Write about virtual functions in C++ with example. 5  
b) Explain function templates in C++ with suitable examples. 5
19. a) Demonstrate the use of try and catch blocks in C++. 5  
b) Explain the unformatted I/O operations of streams in C++. 5
20. a) Explain file pointers and file modes. 5  
b) Write a program to prepare shopping lists using arrays of objects. 5