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 : (10x2=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.
SECTION - B

Answer any five questions. (5x10=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