

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.

LIBRARY
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SECTION – B

Answer **any five** questions.

(5×10=50)

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| 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 |