

III Semester B.C.A. Degree Examination, November/December 2016  
(CBCS) (2015-16 and Onwards)

COMPUTER SCIENCE

BCA 303 : Object Oriented Programming using C++

Time : 3 Hours

Max. Marks : 70

**Instruction :** Answer all Sections.

SECTION – A

- I. Answer **any ten** questions. (10×2=20)
- 1) State any four differences between C and C++.
  - 2) Why do we require const qualifier give example ?
  - 3) What is scope resolution operator ?
  - 4) What is default constructor ?
  - 5) What is the role of EOF ?
  - 6) What is class template ?
  - 7) Explain Dynamic Binding.
  - 8) Define pure virtual function.
  - 9) Define stream.
  - 10) What is the use of file pointer ?
  - 11) Define Exception Handling.
  - 12) What is destructor ? Explain.

SECTION – B

- II. Answer **any five** questions : (5×10=50)
- 13) a) Explain the characteristics of oops. 5
  - b) Describe any three Manipulators. 5
  - 14) a) Explain function overloading with example. 5
  - b) Write a program to perform addition of two matrices using operator overloading. 5

P.T.O.



- 15) a) What are access specifiers used for ? Explain the concept of protected access specifier. 5  
b) Write a note on class templates. 5
- 16) a) What are default arguments ? How they are passed to functions ? 5  
b) Write a program to show returning current object using "this" pointer ? 5
- 17) a) Explain different types of polymorphism ? 5  
b) Write a program to swap two numbers using friend function. 5
- 18) Explain different types of inheritances with example. 10
- 19) a) Explain inline function and illustrate the same with an example ? 5  
b) Write a program to calculate area and circumference of circle using inline function. 5
- 20) Write short note on : 10  
a) Data Hiding  
b) Storage classes  
c) Seekg ( ) and seekp ( ) functions  
d) Virtual Base class.
- 

SECTION - B

(2x10=20)

5

5

5

5

P.T.O.