

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.
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