

III Semester B.C.A. Degree Examination, November/December 2018 (F+R) (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

Answer any ten questions. (10×2=20)

- 1) Mention any four differences between C and C++.
- 2) What are objects and how they are created?
- 3) Mention the uses of scope resolution operator.
- 4) Define constructor. b) What is exception handling? Explain the different blo
- 5) Write the syntax of operator function.
- 6) Mention the memory allocation operators in C++.
- 7) List the operators which cannot be overloaded.
- 8) Define inheritance.
- 9) Differentiate between function overloading and overriding.
- 10) Define stream.
- 11) What are templates?
- 12) Give the general syntax of cin and cout statements.

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SECTION - B

n. Answer any five questions.	(5×10=50
 a) Explain any five basic concepts of Object (OOP). 	Oriented Programming
b) What is an inline function? Write an inline func- of a number.	tion to find absolute value
14) a) Briefly explain function with default argumentsb) What is a friend function? Explain with suitab	6. SwanA nohowyan 5
15) a) Give the general form of a class and illustrate b) Define constructor. Explain any three different	access specifiers 5
a) Define polymorphism. Discuss different typesb) Write a C++ program to add two complex nun operator.	of polymorphism. 5 nbers by overloading '+'
17) Explain different types of inheritance with suitable	examples. 10
18) a) Define pure virtual function. Give an example.b) What is exception handling? Explain the differ handling.	ent blocks in exception
19) a) Explain function template with its general form.b) Write a function template to sort a set of eleme	to xamue ent eihW (a 6 4 nts. 6
20) Write a short note for the following:	
a) Input and output streams. b) fstream class.	8 8) Define inheritance
c) File opening modes.	3 Differentiate between 4