- (a) What do you mean by exceptions? How are exceptions handled in C++?
- (b) Write a C++ program to demonstrate re-throwing of exception.

Unit IV

- Explain the class hierarchy of files that is used in C++ for I/O.
- 9. Write short notes on the following: $4\times4=16$
- (i) Manipulators
- (ii) File pointers
- (iii) Operations on Files
- (iv) Error handling.

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B.C.A. EXAMINATION

(For Batch 2011 & Onwards) PROGRAMMING IN C++ (Sixth Semester) BCA-361

Time: Three Hours Maximum Marks: 80

Note: Question No. 1 is compulsory. Attempt Five questions in all, selecting at least one question from each Unit. All questions carry equal marks.

(Compulsory Question)

- 1. Very short answer type questions:
- (a) How inheritance support reuse of code?
- (b) Explain multiple Inheritance with simple example.

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P.T.O.

- <u></u> Why constructor and destructors have no return type?
- (a) Define function overloading.
- <u>@</u> Define an Abstract class.
- B What is a Template class?
- 9 Explain Rethrowing an exception.
- E Differentiate between Text files and Binary files. 8×2=16

Unit I

- inheritance in detail. Define Inheritance. Explain various types of
- S (a) What are constructors? What rules should a subclass? be followed for creating constructors in
- Explain the rules of inheritance in case suitable examples. of protected and private derivations with

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Unit II

- (a) Define polymorphism and explain its types with suitable example.
- ट is it used in C++? different from pure virtual function? Why What is a virtual function? How is it
- S (a) Differentiate between pure virtual function and an abstract class by suitable example.
- 9 Write a classes conversion between objects of different C++ program to show the

- 6 (a) What do you mean Template Function? Explain using a simple example.
- 9 What is Template Class? How do you using example. inherit from a class Template? Explain

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