Roll No.

Printed Pages: 2

BCA/M-19

ADVANCED PROGRAMMING USING C++ Paper-BCA-242

Time allowed: 3 hours]

[Maximum marks: 80

Note: Attempt five questions in all, selecting one question from each unit. Question. No. 1 is compulsory. All questions carry equal marks.

- (a) What is the difference between overloading and overridding?
 - (b) What is a virtual destructor?
 - (c) What is the difference between text and binary files?
 - (d) Discuss the conditions that the casting operator should satisfy to convert from class type to built-in type.

Unit-I

- What is run-time polymorphism? What is the need of it? Explain using suitable examples.
- 3. What is an abstract class? What do you understand by pure virtual function? Discuss the syntax and semantics.

Unit-II

- Draw a table showing the rules of different types of derivation in inheritance in C++.
- 5. What is type conversion? Write the code to convert the int array into a matrix object type in C++.

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Unit-III

- 6. What is multiple inheritance? What is the use of it? Illustrate using suitable example.
- 7. What is a function template? What is the advantage of it?
 Discuss using suitable example.

Unit-IV

- What is an exception? How is an exception handled in C++?
 Write a program to demonstrate the concept of rethrowing an exception.
- 9. (a) Write a brief note on the stream and corresponding methods for file handling in C++.
 - (b) A class template is known as parameterized class. Comment.