Roll No.

Total Pages: 2

BCA/M-16

19042

OBJECT ORIENTED PROGRAMMING USING C++ Paper: BCA-301

Time : Three Hours]

[Maximum Marks: 80

Note: Attempt five questions in all. Question number 1 is compulsory. In addition to compulsory question, attempt four more questions selecting one question from each unit. All questions carry equal marks.

Compulsory Question

- 1. (a) Differentiate between the concept of structure and class with suitable examples.
 - (b) Write short note on friend function in C++. Give suitable example.
 - (c) Explain the concept of protected derivation with suitable example in terms of inheritance.
 - (d) Differentiate between function template and class template ion C++. (4×4=16)

UNIT-I

- (a) Explain object oriented programming features and benefits.
 - (b) What is scope resolution operator in C++? Explain its significance and give suitable examples.

3. What is the use of constructor and destructor in C ++ ? How do we declare them? Write a program to compute area of various geometrical figures using constructor and destructor.

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UNIT-II

- Explain the concept of operator overloading in C++. Write a program to overload binary " + " operator in C++.
- Explain the concept of string handling and dynamic memory management in C++ with suitable examples.

UNIT-III

- 6. What is virtual function? Explain its significance. Write any Program in C++ using virtual function.
- 7. Explain the following with suitable examples:
 - (a) Function overriding. http://www.kuonline.in
 - (b) Type conversion.

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UNIT-IV

- What is inheritance? Explain various types of inheritance with suitable examples.
- Explain the concept of exception handling in C++ with suitable examples.

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