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Roll No

MCA-303

MCA. III Semester

Examination, June 2016

Object Oriented Methodology And C++

Time: Three Hours

Maximum Marks: 70

Answer five questions. In each question part A, B, C is Note: i) compulsory and D part has internal choice.

- ii) All parts of each question are to be attempted at one place.
- iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.
- iv) Except numericals, Derivation, Design and Drawing etc.
- Give any four application of C++. 1. a)
 - Why constructor is important in C++? b)
 - Give any four advantages of function.
 - Explain copy constructor and destructor with suitable C++ coding.

OR

Write a C++ program to perform complex number operations (Add, Sub and Multiply) using a classes?

- List the C++ operators. Which cannot be overloaded? a)
 - Why inheritance is important? Explain.
 - Give any three examples of multiple inheritance.
 - Make a C++ program that a overloads the operators + and - to perform matrix addition and substraction.

OR

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Explain different types of Inheritance with suitable example.

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- 3. What is the need for virtual function in C++?
 - b) What is the use of Friend Function?
 - c) Explain pure virtual function.
 - d) Write a C++ program to illustrate the concept of friend function.

OR

Define early and late binding with suitable example.

- Write the syntax of seekP() function with example.
 - How open and close a file in C++?
 - Explain tellg() and tellp() function.
 - Write a C++ program using any five of the formatted I/O functions.

OR

Explain Try, catch and throw with suitable example.

- Mention the primary goals in the design of the UML.
 - What do you mean by object diagram?
 - Write the purpose of activity diagram.
 - Is UML a programming language? Is it process dependent or independent? Pen down the names all the UML diagrams? Discuss any two.

OR

Write short notes on:

- Objective oriented paradigm
- ii) Visual modeling

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