67015

M.C.A. Ist Sem. w.e.f. Dec. 2011 (with old notes)

Examination–December, 2014

Object Oriented Programming Using C++

Paper-MCA-105

Time : 3 hours   **Max. Marks : 80**

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

Note : Attempt **five** questions in all, selecting at least **one** question from each unit. All questions carry equal marks.

Unit-I

1. (a) What is Encapsulation ? How it can be used in C++ programming ? Explain with an example.   9

(b) Explain Arrays, Structures, and String with suitable example.   7

2. What is origin of object oriented programming ? Why this language is better than procedure oriented programming ? Explain their advantages and disadvantages with segments in C++.   16

Unit-II

3. What do you understand by inheritance ? How code can be reused in inheritance ? Explain its types with example   16

4. (a) Define Constructor. Explain derived classes using suitable example.   10

   (b) What is Destructor ? Where it has been used? Explain with an example.   6

Unit-III

5. What is Operator Overloading ? Differentiate between overloading of unary operator using friend function and without using friend function.   16

6. Write notes on the following:

    (a) Unexpected Exception   5

    (b) Rethrowing an Exception   5

    (c) Catch-all exception handlers   6

Unit-IV

7. What are templates ? How are these useful ? How overriding of template functions. Explain using suitable example with their advantages.   **16**

8. What do you know about C++ design and development? Explain role of classes in design of software with C++ example.   **16**

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