

Code: 9F00202

MCA II Semester Supplementary February 2014 Examinations

**OBJECT ORIENTED PROGRAMMING**

(For 2009, 2010, 2011 & 2012 admitted batches only)

Time: 3 hours

Max. Marks: 60

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) What are the various paradigms for problem solving?  
(b) Explain the fundamental characteristics of OOP.
- 2 (a) Explain the structure of a C++ program.  
(b) Write a brief notes on the following.  
(i) Pointers. (ii) Arrays. (iii) Strings.
- 3 (a) Discuss about recursive functions.  
(b) Explain C++ class and data abstraction.
- 4 (a) What is meant by function overloading? Explain.  
(b) Discuss about function templates and class templates.
- 5 (a) Define inheritance. What are different forms of inheritance?  
(b) What is a virtual base class? When do we make a class virtual?
- 6 (a) Explain static and dynamic binding.  
(b) Define base and derived classes. Explain access to the base class members.
- 7 Discuss about the class hierarchy, stream I/o, and file streams in C++.
- 8 Write short notes on the following:  
(a) Benefits of exception handling.  
(b) Catching an exception.  
(c) Stack unwinding.

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