

**Code: 9F00202**

MCA II Semester Regular & Supplementary Examinations, October/November 2013

**OBJECT ORIENTED PROGRAMMING**

Time: 3 hours

Max Marks: 60

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) Differentiate the classes and instances.  
(b) Explain the difference of the object oriented programming and procedural oriented programming.
- 2 (a) Discuss about data types in C++ programming.  
(b) What are the different reference, flow control statements in C++, explain with examples?
- 3 (a) Define a class. Discuss about class objects and class scope.  
(b) Explain about friend to a class and static class members.
- 4 (a) Describe dynamic memory allocation and deallocation operators.  
(b) Differentiate between function overloading and operator overloading and discuss in detail.
- 5 (a) Define the base class and derived class and explain the concept of inheritance.  
(b) Explain about single level inheritance and multilevel inheritance in detail.
- 6 Write short notes on the following:
  - (a) Virtual functions.
  - (b) Access to the base class members.
  - (c) Class construction.
  - (d) Destructors.
- 7 (a) Discuss about file streams and string streams.  
(b) Explain file operations and discuss about error handling during file operations.
- 8 (a) What meant by exception handling? What are benefits of exception handling?  
(b) Discuss about:
  - (i) Throwing an exception.
  - (ii) Catching an exception.

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