END TERM EXAMINATION

FOURTH SEMESTER [MCA] MAY–JUNE–2014

Paper Code: MCA-208	**Subject: Object Oriented Analysis and Design　(2010 Onwards)**
Time: 3 Hours	**Maximum Marks: 60**

Note: Attempt any five questions, including Q.no.1 which is compulsory.

Q1　(a) Explain four features of object oriented programming methodology.
　　(b) Explain the concept of forward and reverse engineering.
　　(c) What do you mean by cohesion and coupling in object oriented design? How will you rate a good design terms of these parameters?
　　(d) Explain the significance of uses cases and collaboration.
　　(e) Define an abstract class. How is it useful?　　　　　　**(5x4=20)**

Q2　Generate an object oriented design of a banking system as per your perception. Each class and its members should be clearly defined. Further, also explain any relationship that may exist among multiple classes.　　　　　　**(10)**

Q3　(a) Explain Object Oriented life cycle model.　　　　　　**(5)**
　　(b) Define OOD and OOSA object oriented methodologies.　　**(5)**

Q4　Develop an activity diagram of a meeting scheduler system for a company. State any assumption you make about this system while doing this.　　　　　　**(10)**

Q5　(a) What do you mean by unified process? Explain various phases of unified process in OOAD.　　　　　　**(6)**
　　(b) Explain the concept of aggregation.　　　　　　**(4)**

Q6　(a) What do you mean by an activity diagram? Explain with suitable example.　　　　　　**(5)**
　　(b) Explain the importance of a class diagram.　　　　　　**(5)**

Q7　What do you mean by testing phase in software engineering? Describe the difference between white box and black box testing. Explain unit testing, integration testing and system testing.　　　　　　**(10)**

Q8　Explain the basic blocks of UML? Discuss about UML deployment and component diagrams.　　　　　　**(10)**

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