



[3780] – 403

**M.C.A. (Semester – IV) (Mgt. Faculty) Examination, 2010**  
**IT 43-403 : OBJECT ORIENTED ANALYSIS AND DESIGN**  
**( 2008 Pattern)**

Time : 3 Hours

Max. Marks : 70

**Instructions :** 1) Q.1 is **compulsory**.  
2) Solve **any five** questions from remaining.

1. A University has decided to conduct an online entrance test for Ph.D.
  - Candidate has to submit the application by selecting appropriate streams
  - University declares the exam centres depending on no. of candidate enrolled
  - A exam schedule is prepared by University and displayed on website
  - Candidate appear for exam and fill the option form for research center
  - Website provides subjectwise guide with vacancies
  - Result is declared and selected students are called for interview

A) Draw class diagram. **(10)**

B) Draw use case diagram. **(10)**
2. Explain various approaches for identifying classes. **(10)**
3. A) Draw collaboration diagram for adding a new contact in mobile. **(5)**  
B) Draw a sequence diagram for sending SMS to your friend. **(5)**
4. Describe RUP in detail. **(10)**
5. Draw activity diagram for online bill payment of electricity bill. **(10)**

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[3780] – 403



6. Draw the state transition diagram for Bank Safety Locker System which consist of a sensor and the system with the following facilities :

- 1) Sensing the intruders
- 2) Taking their photographs.
- 3) Scanning their finger prints.
- 4) Alarm system.
- 5) Auto dialing to the authorities

**(10)**

7. Write a short notes on (**Any two**) :

**(10)**

- A) Booch methodology
- B) Object persistance
- C) Data access layer
- D) Testing strategy.

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