

## **2007 M.C.A pune university**

**Object oriented Analysis and Design-MCA exam Question paper**

2005

Max. Marks 70

Max Time 3hour

- 1. a) Draw the use case diagram and class diagram for a car rental application. The car rental agency has multiple offices/branches. The customer visits the agency for enquiry and takes a test ride then select the car by signing the terms and conditions form. The customer can also book the car through telephone email and sms. The agency checks the availability of the car and gives the status to the customer.**

The customer can also avail the driver facility if required, by paying additional charges.

The billing is done based on the type of vehicle and distance travelled.

- b) Explain Inheritance and its type with example.**

- 2. Describe RUP in detail.**

- 3. Explain Grady BOOCH Methodology.**

- 4. a) Draw a sequence diagram for balance through ATM.**

- b) Explain Object Persistence.**

- 5. Draw the activity diagram for Online Railway Reservation system.**

- 6. Draw the state transition diagram for Bank safety locker system which consists of sensor and the system 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.**

**7. Write short notes on (any two)**

**a) Guidelines for developing test plans.**

**b) CRC**

**c) Any Two patterns.**

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