**Name: Id: Sec:**

1. **Draw a Use Case diagram for the following case study: 7.5**

In a hospital management system a patient's medical history is created by a doctor. A patient may be referred by a doctor to be admitted in the hospital. A patient can rent hospital facilities. An administrative officer deals with the renting. The system automatically checks whether the patient is referred by a doctor before he can rent any hospital facility. The types of facilities are rooms, beds or ICUs. Admitted patients are regularly visited by doctors and a nurse updates patient medical history after each visit. A doctor writes the discharge note of the patient when he leaves which is also included in the patient's medical history. An account clerk prepares the bill. The bill is calculated from the elements written in the medical history, i.e. number of doctor's visit, prescribed medication, tests. When the nurse updates the medical history she writes either the date-time of doctor's visit or prescribed medication or test. The patient may pay by cash or card when the bill is prepared.

1. **Draw a Use Case diagram for the following case study: 7.5**

ABCD Records is a mail order company that distributes CDs and tapes at discount prices to record club members. A member fills up an order form and sends it to the order processing clerk. When the order processing clerk receives an order form, she verifies that the sender is a club member by checking the member file. She also checks the status of the member whether he is a royal class member or regular class member. If the sender is not a member, the clerk returns the order along with a membership application form. If the customer is a member, the clerk verifies the order item data by checking the item file. Then the clerk enters the order data and saves it to the daily records file. At the same time the clerk also prints an invoice and shipping list for each order, which are forwarded to the collection department clerk for processing there. If the items are not available they are ordered if the member is a royal class member. Royal class members also get discounts. The members can pay by cash, check or bank draft.