Daffodil International University

Department of Computer Science and Engineering
Faculty of Science and Information Technology
Final Examination, Semester: Spring-2016
Course Code: CSE 333   **Course Title: Software Engineering**
Section: All Level   Term: L3-T3   Course Teacher: All

Time: 2:00 Hours   **Total Marks: 40**

Yesterday my boss asked me to develop architecture for software and he provided me a SRS. Well as I am not that good with designing and thinking I would like you to help me as you are a Software Engineer. The Description he provided me is given below:

In an Online Shop management system customer and shop-keeper are the plays main role. Every human has a name, age, gender. Customer is a human who has contact number, address and ID. Shop-keeper also is a human who has Name, ID and Phone Number which is also visible to all.

Our online shop has lots of product. Product has Name, ID, Type, Price and Quality. Here only ID is hidden and all the other are visible to all. Product Types consists of clothing, perfume, accessories. Belt, Shoe, Moneybag is a type of accessory which is made of Leather.
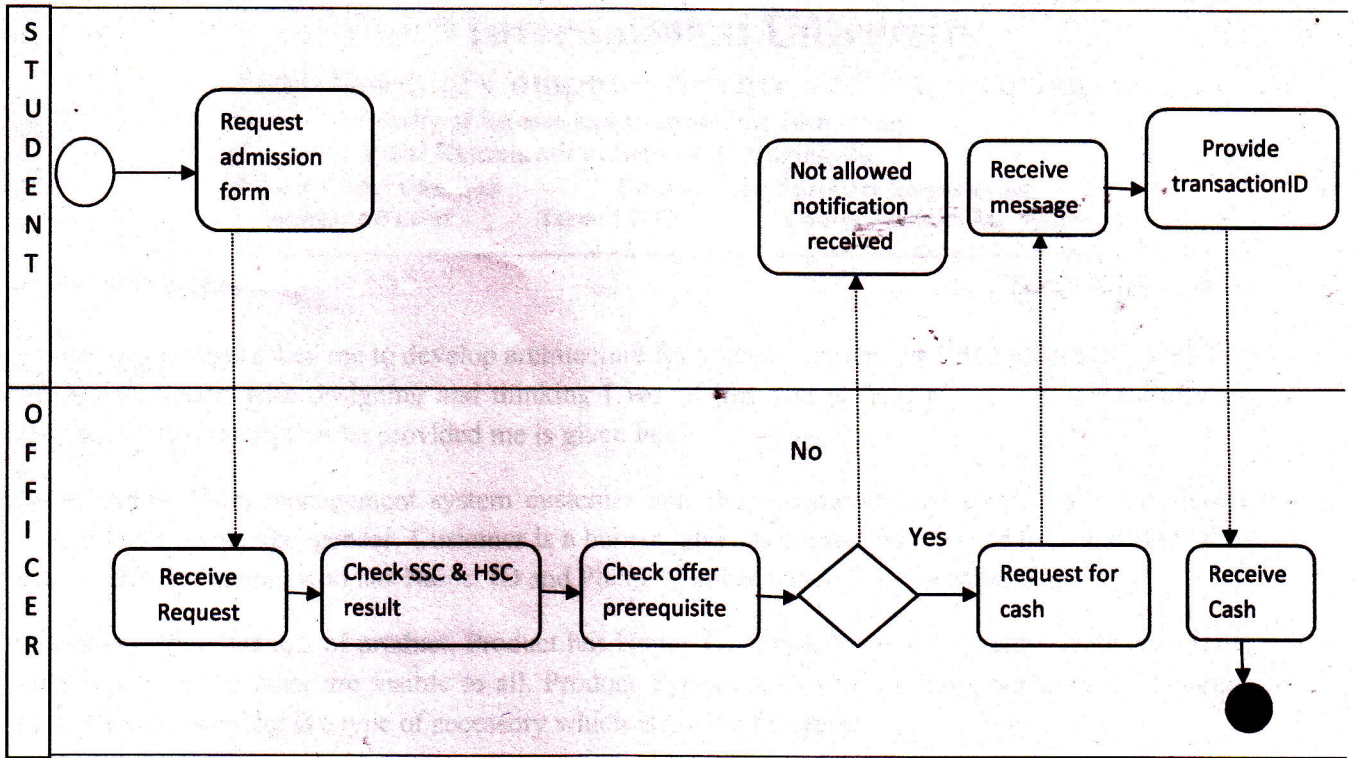
Admin can add product and remove product which also returns an integer. Both of these are private. A customer can order a product from the system. For that an order has id, product quantity and ordered date. An order is made of a customer and many products.

System also has supplier who is a human. Supplier also has contact number but it is not available for all, only for shopkeeper. There is also an important part that is the payment. Payment is given by customer and received by shop-keeper. So, we can say that every payment has time, date, id and customer. A customer can search item and place order.

Admin is also a human who can create account for both supplier and shop-keeper.

1. Draw Object Model.   (20)
2. Design 5 test cases for product.   (5)
3. Draw a BPM for the order process of a customer who will start by searching.(5)

STUDENT / **OFFICER** swimlane BPM diagram:

STUDENT lane: (start) → Request admission form → ... → Not allowed notification received ; Receive message → Provide transactionID

OFFICER lane: Receive Request → Check SSC & HSC result → Check offer prerequisite → (decision diamond) → Request for cash → Receive Cash → (end)

Decision branches: No → Not allowed notification received ; Yes → Request for cash

4. How many GUI one should design for the above BPM. Design them according to your answer.   (10)

--GOOD LUCK--