

1.

- a. Consider an online shopping system where a user can search for a specific item and then add buying request. The following table specifies actor actions and system responds for the task. Now draw the sequence diagram for the system.

| Actor Action                                   | System Response                  |
|--|----------------------------------|
| 1. Search for a specific item                  | 2. Get search result             |
| 3. None  | 4. Show search results           |
| 5. Send request to view details of the product | 6. Get details                   |
| 7. None  | 8. Show product details          |
| 9. Add buying request                          | 10. Save the request in database |

- b. Draw the corresponding class diagram for the system described in question 1 (a).

Or

- a. Draw Sequence diagram of Food's ordering system

The ordered sequence of events in a given sequence diagram is as follows:

Place an order.

Pay money to the cash counter.

Order Confirmation.

Order preparation.

Order serving.

b.

Explain the following class diagram according to definition, relation and multiplicity notation.

The COMPANY conceptual schema  
in UML class diagram notation.

