1. a. Draw the complete SDLC diagram showing all its' phases.   4
                                                                                 CO1

    b. List some interactive requirements gathering tools or fact finding   4
    methods.   CO1

2. a. Following is the list of all costs and benefits of multinational clothing   12
    brand "Fashion Clothes". Compute the cost benefit analysis using simple   CO3
    cash flow method. Find **BEP** and **ROI**.

	Year 0	Year 1	Year 2	Year 3
Costs: Salary	100,000	200,000	200,000	250,000
Transportation	10,000	50,000	25,000	25,000
Machineries	200,000	20,000	25,000	27,000
Utility bills and advertisement	90,000	40,000	45,000	20,000
Benefits: from country branches	0	55,000	105,000	305,000
From international branches	0	50,000	100,000	400,000
From home Deliveries	0	55,000	110,000	205,000

    b. Mr. X wants to invest his money in some business which would take not   8
    more than 2 years to recover his original investment. Do you suggest him to   CO2
    invest his money in "Fashion Clothes"? Justify your answer. [Hint: Use the
    answers of 2.a]

3.   You need to design an online movie ticket booking system. User need to   **12**
register for the first time, then he can login. After login, a user can choose   **CO3**
movie theater, and show date and time. Then system shows list of available
movies and user can choose any of them. There are two types of tickets:
premier and general, user can buy any type. User can pay ticket fare by bkash,
rocket, or credit card. After a user buys a ticket, system updates the available
seat information. Draw the use case diagram of the online movie ticket booking
system.