Assignment 6

The due date for submitting this assignment is passed. As per our norms you have not submitted this assignment.

1) Which of the following is not essential for flexibility in a supply chain?  
- Low Cost  
- Adaptable  
- Agility  
- Alignment

**Answer:** Alignment

2) Flexibility in supply chain does not result in:  
- Lower cost  
- Higher customer satisfaction  
- Higher confidence in business  
- All of the above

**Answer:** All of the above

3) A supply chain consists of 4 manufacturing locations and 7 retail locations. Each manufacturing location can ship "x" units per year and each retail location can sell "x" units per year. Manufacturing locations are A1, A2, A3, and A4, and retail locations are R1, R2, R3, R4, R5, R6, and R7. The objective is to minimize the total cost of transportation, how many decision variables will be there in this modeling activity?

**Number of decision variables:** 28

4) Flexibility in a supply chain:  
- In a supply chain, the manufacturing locations and 5 retail locations are available. Each manufacturing location can supply "X" units per year and each retail location can sell "X" units per year. Manufacturing locations are A1, A2, A3, and A4. Retail locations are R1, R2, R3, R4, R5, R6, and R7. The objective is to minimize the total cost of transportation, how many decision variables will be there in this modeling activity?

**Number of decision variables:** 28