Assignment 4

1. What are the major costs to be considered in planning a new plant?
2. Explain the impact of reverse logistics on supply chain management.
3. Explain the difference between forward and reverse logistics.
4. Identify the key components of reverse logistics.

2. Natural demand planning issues: Issues of uncertainty, demand forecasting, and inventory control.
3. Right-sizing: The process of determining the optimal size and capacity of facilities to meet demand.
5. Inventory control: Methods for managing inventory levels to meet demand efficiently.

2. How does the implementation of reverse logistics impact the overall supply chain?
3. What are the key challenges in implementing reverse logistics in a supply chain?
4. Explain the role of technology in reverse logistics.

3. Strategic decisions: The importance of strategic planning in ensuring the success of reverse logistics initiatives.
4. Environmental considerations: The role of reverse logistics in promoting sustainability.
5. Legal and regulatory considerations: Compliance with laws and regulations related to reverse logistics.

1. Determine the optimal location for a new distribution center using the ABC analysis.
2. Calculate the economic order quantity (EOQ) for a product with given demand and carrying costs.
3. Evaluate the cost-effectiveness of different transportation modes for a given supply chain scenario.