**Advanced Supply Chain Management**

**April 2023 Examination**

**1**. **The Calberry Candy Company makes a variety of candies in its several factories nationwide. Its line of chocolate candies exhibits a highly seasonal demand pattern, with peaks during the last two quarters and low demand during the first and second quarters. The demand forecast and various production costs are given below.**

**Period Sales Forecast in Kg**

**Quarter I 80,000**

**Quarter II 50,000**

**Quarter III 120,000**

**Quarter IV 150,000**

**Hiring cost = Rs100 per worker, Lay-off cost = Rs500 per worker**

**Inventory carrying cost = Rs0.50 per kg per quarter**

**Regular production cost per kg = Rs2.00**

**Production per employee = 1000 kg/quarter, Beginning workforce = 100 workers**

**Given the following costs and quarterly sales forecasts, determine whether level production or chase demand would more economically meet the demand for chocolate candies (10 Marks)**

**Ans:**

**Introduction:**

The Cowberry candy company produces a variety of candies, and one of its products is chocolate candies. The demand for chocolate candies reveals a pretty seasonal demand sample, with excessive demand over the past quarters and occasional calls for the duration of the first and second quarters. In this situation, the company desires to decide whether or not to undertake a stage production or chase call for to fulfil the call for chocolate candies extra economically. To make this selection, we need to investigate the price associated with each option and decide which one

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**2. As one of the major logistical drivers, transportation has a large impact on both responsiveness and efficiency of the supply chain. Discuss (with examples) the quick and informed decisions related to transportation a manager has to make to meet these challenges**. **(10 Marks)**

**Ans:**

Transportation is an essential issue of the technique of dealing with the delivery chain, and it performs a significant component not only in responsiveness but also in efficiency. Because the decisions that a manager makes concerning transportation will significantly influence the delivery chain, managers need to make decisions fast and in an informed way to cope with any problems that can occur. In this article, we will speak about a number of the difficulties that managers in the transportation industry could run across, as well as the choices they have

**3. Maxx Private Limited stocks and distributes consumer items. It wants to automate all supply chain processes of organization through IT. Suggest the following with justification/examples:**

**a. Which objectives of Maxx Private Limited should IT serve?** **(5 Marks)**

**Ans:**

**Introduction:**

Maxx personal, limited stocks, distributes purchaser items and is looking to automate its delivery chain methods via IT. Recognizing the company's goals and strategies is essential to decide which objectives IT should serve. In this essay, we will suggest the goals that IT must serve for Maxx private limited and offer

**b. The two main types of supply chain IT systems Maxx should use.** **(5 Marks)**

**Ans:**

**Introduction:**

Maxx private limited can take advantage significantly by enforcing various IT structures to manipulate different aspects of the delivery chain. This essay will discuss the four main types of delivery chain IT systems that Maxx must use, along with their benefits