**Operations and Supply Chain Management**

**June 2023 Examination**

**1. Analyze the requirement of competing on the following parameters in order to be operational robust in the Industry:**

**a. Quality**

**b. Cost**

**c. Flexibility**

**d. Speed**

**e. Service (10 Marks)**

**Ans :**

**Introduction:**

Companies should compete on diverse parameters to remain operational and sturdy in their respective industries in today's competitive business surroundings. An organization's success depends on its capacity to satisfy its clients' changing desires and expectations, even keeping pace with technological advancements and marketplace traits. In this context, it is essential to analyze the requirement of competing on various parameters, such as first-rate, price, Flexibility, velocity, and carrier, to be operationally sturdy inside the industry. This essay will discuss those parameters and their It is only half solved

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**2. Real Fruit Snack Strips are made from a mixture of dried fruit, food coloring, preservatives and glucose. The mixture is pressed out into a thin sheet, imprinted with various shapes, rolled and packaged. The precedence and time requirements for each step in the assembly process are given below. To meet demand, Real Fruit needs to produce 6000 fruits strips every 40-hour week. Design an assembly line with the fewest number of workstations that will achieve the production quota without violating precedence constraints.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Work Element** | | **Precedence** | **Time (Min.)** |
| **A** | **Press out sheet of fruit** | **-** | **0.1** |
| **B** | **Cut into strips** | **A** | **0.2** |
| **C** | **Outline fun shapes** | **A** | **0.4** |
| **D** | **Roll up and package** | **B, C** | **0.3** |

**Ans:**

**Introduction:**

The Manufacturing agency aims to obtain green production techniques that meet the required call at a minimum price. Assembly line design is an essential device for reaching an efficient production manner. Meeting line design aims to minimize the number of workstations during assembly production requirements and precedence constraints. This paper will analyze how to lay out an assembly line with the fewest workstations that meet those production requirements without violating precedence constraints. In this case, natural Fruit Snack Strips

**3. (a) How can radio frequency identification (RFID) be used for tracking perishable goods moving from one location to another? (5 Marks)**

**Ans:**

**Introduction:**

Radiofrequency identification (RFID) is the generation that has been used for many years to track and pick out merchandise, animals, and people. RFID era uses radio waves to transfer records between a reader and an electronic tag connected to an item. This technology is widely used in retail, logistics, and healthcare industries to track and manipulate inventory,

**(b) Why is Amazon known as the Supply Chain master? (5 Marks)**

**Ans :**

**Introduction:**

Amazon is one of the most successful and dominant gamers within the e-commerce enterprise, with a reputation for being a grasp of supply chain management. The employer has continuously added products to its customers with speed, efficiency, and reliability. This has allowed Amazon to construct