**Operations Management**

**June 2023**

1. **As a business owner, one of the most critical decisions you will make is choosing a location for your business setup. What are the various decision criteria for deciding a location for a business setup, and how do they apply to set up an electric vehicle charging station? Assume any size for the setup. (10 marks)**

**SOLUTION**

**Introduction**

The promotion as well as the use of new energy vehicles those are electric vehicles, under the pressure of carbon neutrality and carbon emission reduction, is becoming increasingly popular. The location of the Electric Vehicle Charging Station (EVCS)and its construction have attracted extensive attention in the academic community. EVCS location is affected by many subjective and objective factors, such as electric vehicle (EV) mileage, service radius, and user preference. There is great uncertainty in the process of decision-making, and in regards to accurate values in the

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**2) Explain in detail the various types of plant layout concepts that are available in operations management. Give examples of where each of these types can be**

**employed respectively. Briefly explain a layout applicable for a cloud kitchen**

**format vis-à-vis a dine-in restaurant, highlighting the good points and bottlenecks, if any. (10 marks)**

**SOLUTION**

**Introduction**

# A plant layout, as defined by Moore defined, is "The plan of or the act of planning, an optimum arrangement of facilities, that include operating equipment,personnel, materials handling equipment, storage space, and all other supporting services along with the design of the best structure to accommodate these facilities”.

**Diagram 1**

Plant layouts are of three types and these correspond to the three types of processing systems. Product layouts refer to continuous processing, process layouts refer to

**3) A patisserie brand is planning to open a new mid-sized pastry shop near your**

**locality. Considering their expertise and knowledge in manufacturing and branding their product offerings, they are confident of getting into the new pastry shop operations. You are required to suggest the team on the following points:**

1. **What strategy would the pastry shop adopt for an Aggregate Operation Plan of resources given a time frame of a year? (5 marks)**

**SOLUTION**

**Introduction**

Aggregate Planning in Operations Management determines resource allocation and production strategies to meet the uncertain and fluctuating future demand at minimum production cost for the *Intermediate Time Horizon*.

The word ‘Aggregate‘, here, signifies the product lines and families, while, ‘

**b) Discuss the concept of Q and P systems of ordering along with its issues in**

**inventory control for the pastry shop (5 marks)**

**SOLUTION**

**Introduction**

The subject to be discussed here is the **Inventory System.**

An inventory system facilitates the operating policies and the organizational structure for maintaining and controlling materials to be inventoried. This system involves ordering and receipt of materials, keeping a record of what has been ordered,