**World Class Operations**

**June 2023 Examination**

**Question 1: You are the Quality Control Manager of an automobile manufacturer implementing Taguchi’s idea. In this context explain Taguchi’s Loss Function.**

**Ans:**

**Introduction**

A Japanese engineer and statistician named Genichi Taguchi are responsible for developing a concept for exceptional control called Taguchi's Loss function. The Loss function is a statistical instrument that evaluates the economic price of poor satisfaction in a product or manner. It may be used either alone or in conjunction with other loss functions.

The Taguchi Loss characteristic is primarily based on the principle that the value of a product's quality rises in proportion to the diploma to which it deviates from the customer's standards. The purpose of the Loss function is to estimate the financial loss that occurs due to

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**Question 2: Quality is one of the parameters for companies to become world class. Examples can be cited of Ikea, Apple etc. In this respect briefly narrate the factors that affect quality of products manufactured by companies like Ikea, Apple etc.**

**Ans:**

**Introduction**

This is a 1:1 connection. This link will take you straight to the destination. By taking a different holistic view of a situation, there is an instantaneous correlation between the high niceness of the man or woman parts that cross into the production of a product and the friendliness of the finished product when seen as a whole. When the manufacturing technique is kicked off with durable raw materials, it paves the way for developing final products with outstanding excellent durability. That is the case with the goods synthetic by businesses such

**Question 3. a:Assuming that you are the Operations Manager of an automobile manufacturer, implementing Fault Tree Analysis. Briefly explain the steps involved in the implementation**

**Ans 3a.**

**Introduction**

Fault Tree analysis, also referred to as FTA, is a method widely used to discover and verify the elements that contributed to the failure of a system. This method is usually known as Fault Tree evaluation. To correctly put into effect FTA, the Operations manager of an automobile firm is required to finish numerous critical activities, several of which are as

**Question 3. b: With reference to you being an Operations Manager implementing Fault Tree Analysis, explain how is it differ from FMECA?**

**Ans 3b.**

**Introduction**

Suppose you are an Operations supervisor tasked with carrying out each Fault Tree evaluation (FTA) and Failure Mode, results, and Criticality evaluation (FMECA). Both of these approaches are used to identify and analyze the possibility of failure; nevertheless. In