**Lean Six Sigma**

**June 2023 Examination**

**Question 1: Identify any 1 specific concern from any industry during the COVID-19 pandemic situation and depending on the selected approach to address the concern enlist the different tools which can be employed through the DMAIC cycle to narrow down the Key Process Input Variables (KPIVs) that are driving unacceptable output(s). The  analysis of the concern (for e.g., if you choose restaurant industry then delivery concern or hospitals then patient handling concern) utilizing DMAIC process must include only tools necessary to resolve the concern. The focus should concentrate on a clear and minimalistic path to resolving the concern.**

**Ans:**

**Introduction**

One particular concern during the COVID-19 pandemic is the undertaking faced by the healthcare industry in managing and controlling the unfolding of the virus inside hospital settings. The method to cope with this issue will be to the consciousness of the patient handling process within the medical institution, specifically searching at transferring patients from one unit to another. The failure modes and results analysis (FMEA) is the third approach that may be used to hit upon likely disasters within the patient management process that might lead to the spread of the contamination. This method can see possible

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**Question 2:  Suppose you are working as a facilities manager in a big mall of a metropolitan city that intends to adopt the lean technique for efficient management, identify any process/activity that needs improvement and create a broad outline in brief using DMAIC methodology.**

**Ans:**

**Introduction**

If you had been the facilities supervisor of a top mall in a metropolitan area, one of the methods or sports that needed to be addressed would be how garbage is handled within the mall. That is something to preserve in thoughts. One strategy for improving this procedure's effectiveness is using the DMAIC approach, which can be broken down into the following tiers.

**First things first:** parent out the exact nature of the issue. The first aspect that should be

**Question 3. a: Enlist at least 5 Indian companies preferably from different industries or sectors which have implemented Six Sigma in a successful manner. Also, specify at least 1 substantial benefit achieved from implementation by each of the 5 Indian companies.**

**Ans 3a.**

**Introduction**

The following five Indian businesses, which originate from a range of sectors, are detailed examples of sensible applications of Six Sigma: The organizations have been able to keep their positions inside the marketplace and gain success in their respective sectors over a significant quantity of time as a direct result of the benefits which have been outlined inside

**Question 3. b: Give at least 1 example of each type of waste (8 Mudas) reduced due to the implementation of lean six sigma in that organization. You are free to select any industry or sector.**

**Ans 3b.**

**Introduction**

Consider the case of a production company that has adopted Lean Six Sigma to reduce the amount of waste produced by using its operations. Due to the implementation, the following is an example of every one of the eight different types of particles that have