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**Presidency University**

**Bengaluru**

**School of Management**

**End-Term Examination - August 2024**

**Date**: 05th August 2024

**Time**: 01:00pm – 04:00pm

**Max Marks**: 100

**Weightage**: 50%

**Semester**: III

**Course Code**: MBA3063

**Course Name**: Lean Supply Chain Management

**Department:** SOM

**Instructions:**

1. *Read the all questions carefully and answer accordingly.*
2. *Do not write any information on the question paper other than roll number.*
3. *Question paper consists of 3 parts.*

**PART A**

**Answer any 10 Questions. Each question carries 3 marks. (10Qx 3M= 30)**

1. State the definition of JIT. (CO:01) (Knowledge)
2. List the 5 aspects of Lean process. (CO:01) Knowledge)
3. State the definition of Lean. (CO:01) Knowledge)

1. List the advantages of Pull system. (CO:02) Knowledge)
2. State the general methods of forecasting. (CO:02) Knowledge)

1. List the difference between dependent and independent demand. (CO:02) Knowledge)
2. List the seven flows of manufacturing. (CO:02) Knowledge)
3. Define controlling inventory. (CO:03) Knowledge)
4. Difference between Inbound and outbound logistics. (CO:03) Knowledge)
5. List the three cost drivers in warehouse management. (CO:03) Knowledge)
6. Define control chart. (CO:04) Knowledge)
7. Difference between traditional and lean purchasing. (CO:04) Knowledge)

**PART B**

**Answer any 4 Questions. Each question carries 10 marks. (4Qx 10M= 40)**

1. It is believed that the service efficiency increases with good lean practices. The Japanese 5S is one such concept used to enhance the workplace efficiency. Discuss the significance of 5S in Lean Supply Chain Management. Give suitable examples. (CO:01) (Application)
2. It is required to prepare a BOM for a crushing equipment for a company. The company has implemented lean practices throughout the production Centre. It has received huge orders to be fulfilled for the next 2 years. Explain the importance of BOM in LSCM. (CO:02) (Application)

1. Inventory management is a voluminous task and the managers in charge of inventory go through lots of regular inspections. One of the objectives to reduce the burden on inventory management is to keep the inventory requirements as low possible. Heijunka is one of the ways to reduce the burden on inventory systems. Explain the importance of Heijunka with examples applicable to LSCM. (CO:02) (Application)
2. Illustrate the work load planning in lean supply chain management. (CO:03) (Application)

1. Demonstrate the seven lean quality tools in supply chain management. (CO:04) (Application)
2. Discuss how to establish lean supply chain management. (CO:04) (Application)

**PART C**

**Answer the following Questions. (2Qx 15M= 30)**

1. In a production Centre it is found that the manager always refers to MPS. MPS is developed to bring out various details related to production process. List the various elements of MPS. Explain in detail how does MPS practically benefit a company in implementing and maintaining lean processes. (CO:03) (Analysis)
2. A company Prime-Log caters to the transportation needs of heavy weight signal towers. Prime-Log caters to large volumes of shipments pertaining to assembly of a Signal Towers. A tower requires 4 major components for its assembly. The Components are C1, C2, C3, and C4. The quarterly demand for the components is 1200, 2400, 6000 and 4200 respectively. Assume that Prime-Log works on fortnightly basis, prepare a POQ table to indicate the schedule that would result if we were to build in a quarterly interval and how it would be different if we built a fortnightly interval for the components. Indicate sample steps involved in the determination of the schedule. Explain in detail the benefits of adopting smaller intervals and its importance in lean inventory management. (CO:04) (Analysis)