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**Presidency University**

**Bengaluru**

**School of Management**

**Summer Term End-Term Examination - August 2024**

**Date**: 07 AUGUST 2024

**Time**: 9:30Am – 12:30Pm

**Max Marks**: 100

**Weightage**: 50%

**Semester**: I

**Course Code**: MBA2040

**Course Name**: Production and logistics 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. Define Third-Party Logistics (3PL) and its Uses Manufacturer. (CO:04 Knowledge)
2. Describe briefly Logistics management with 3-4 sentences along with a real time example.

(CO:04 Knowledge)

1. Toyota Production System (TPS) started Quality management Lean Production (1980s-1990s) Identify the results achieved in this Production process. (CO:03 Knowledge)

1. List the three examples (Real time product) for Product design, with brief explanation?

(CO:02 Knowledge)

1. Define the types of productivity measures practiced in industry. (CO:02Knowledge)

1. Operational strategies are very important for companies’ success. Briefly explain any two.

(CO:02 Knowledge)

1. Describe the factors for selecting a plant location (CO:01 Knowledge)
2. Calculate the productivity growth if the past productivity is 85% &current productivity is 95%

(CO:01 Knowledge)

1. Define Forecast error and list the three types of errors (CO:02 Knowledge)
2. Define  Blockchain technology ? How this Technology will revolutionize logistics management ?   
    (CO:02 Knowledge)
3. Operations Management needs coordination and collaboration with various functional areas within the business. Discuss briefly the functional areas where Operations has interface.

(CO:01 Knowledge)

1. State the difference between 3PL and 4PL Logistics. (CO:04 Knowledge)

**PART B**

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

1. Define Forecasting and Forecasting errors with formulas for the given sales data calculate the sales forecast for the year 2021 based on four-year simple moving average method. Please write all steps.

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| --- | --- | --- | --- | --- | --- | --- |
| Year | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
| Sales | 1300 | 1350 | 1450 | 1500 | 1550 | 1600 |

(CO:02 Application)

1. Illustrate the five Critical factors influencing Factory | Facility location with explanation for each point.   
    (CO:01 Application)

1. Interpret the Nine  Building Blocks of a Business Model ? Answer in Nine Bullet points with brief explanation ? (CO:04 Application)
2. Discuss the Types of Production Planning and Control Systems with explanation.

(CO:03 Application)

1. Logistics management is the process of strategically planning, implementing, and controlling the movement and storage of goods, services, and information within a supply chain. Name 5 components within logistics management with brief explanation (CO:03 Application)
2. Find the Economic Order Quantity (EOQ), given – Annual demand (D) =1000 units, ordering cost (Rs.5 per order) and Holding Cost (H) Rs.1.25 per unit per year ? (CO:02 Application)

**PART C**

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

1. Warehouse and distribution management involves the efficient storage, handling, and movement of goods within a facility and throughout the supply chain to ensure timely delivery to customers. Discuss 7  key aspects of Warehouse and Distribution management, with brief explanation of each point?   
    (CO:03 Analysis)
2. ABC Electronics is a mid-sized company that produces electronic components for various industries. The company has been experiencing issues with overstocking and stockouts, leading to increased holding costs and production delays. They currently use the Economic Order Quantity (EOQ) model to manage their inventory but are considering adopting the ABC classification system to improve their inventory control. Additionally, they are evaluating their procurement processes to better align with their inventory management strategies.

**Questions**

a)Discuss how the integration of the ABC classification system with the EOQ model can enhance ABC Electronics' inventory management. Provide specific examples of how the ABC system can help in prioritizing inventory items and reducing costs.

b) Evaluate the different types of procurement processes (e.g., single sourcing, multiple sourcing, just-in-time) and recommend the most suitable procurement strategy for ABC Electronics.

(CO:03 Analysis)