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| **PROGRAM** | **MASTER OF BUSINESS ADMINISTRATION (MBA)** |
| **SEMESTER** | **II** |
| **COURSE CODE & NAME** | **DMBA201 –PRODUCTION AND OPERATIONS MANAGEMENT** |
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**Assignment Set – 1**

**1a. Briefly explainany two steps involved in increasing labour productivity.**

**b. Explain the following factors that help strategic decision making.**

**(i) Environmental Scanning (ii) Core Competencies**

**Ans 1.**

a. Increasing labor productivity is crucial for organizations to enhance their competitiveness and profitability. Two key steps involved in increasing labor productivity are:

**Training and Development:** Investing in training and development programs for employees is essential to improve their skills and knowledge. Through training, employees can learn new techniques, technologies, and best practices that can help them perform their tasks more

**Ans b.**

Environmental scanning is a crucial aspect of strategic decision-making for organizations. It involves the continuous monitoring, evaluation, and interpretation of external factors and trends that could impact the organization. Several factors contribute to effective

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**2a.What are the factors to be considered for the selection of forecasting method?Explain briefly.**

**Ans 2a.**

When selecting a forecasting method, several factors should be considered to ensure the accuracy and reliability of the forecast. These factors can vary depending on the nature of the project, the available data, and the specific requirements of the organization. Some key factors to consider include:

**Data Availability:** The availability of historical data is crucial for selecting an appropriate forecasting method. Some methods, such as time series analysis, require a significant amount

**b. What are the factors to be considered while developing layout for manufacturing facilities?**

**Ans 3b.**

Developing a layout for manufacturing facilities is a critical task that requires consideration of various factors to ensure efficiency, safety, and productivity. The following are key factors that should be considered:

**Process Flow:** The layout should facilitate a smooth flow of materials, equipment, and personnel throughout the manufacturing process. This includes minimizing bottlenecks and

**3a.Explain the important factors that improve product quality**

**b.Write short note on logical process modelling.**

**Ans 3a.**

Improving product quality is crucial for maintaining customer satisfaction, enhancing brand reputation, and achieving long-term business success. Several factors contribute to enhancing product quality:

**Effective Design**: A well-thought-out design that considers customer needs, functionality,

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**Ans 3b.**

Logical process modeling is a key concept in project management, providing a structured approach to understanding and improving processes within an organization. It involves creating a visual representation of how a process works, using symbols and diagrams to illustrate the flow of activities, decisions, and information.

The main purpose of logical process modeling is to analyze and optimize processes to

**Assignment Set – 2**

**4a. Discuss project management philosophy**

**b. How do you control quality during project implementation? 5**

**Ans 4a.**

**Project Management Philosophy:**

Project management philosophy revolves around the principles, practices, and values that guide the planning, execution, and completion of projects. It encompasses a set of beliefs that define how projects should be approached and managed to achieve success. One of the key philosophies in project management is the understanding that a project is a temporary endeavor undertaken to create a unique product, service, or result. This perspective helps

**Ans 4b.**

**Quality Control during Project Implementation:**

Quality control during project implementation is a critical aspect of ensuring that the project delivers the intended results and meets the expectations of stakeholders. It involves the processes and activities undertaken to monitor and verify that the project outputs meet the defined quality standards. Several key practices can be implemented to control quality during

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**5a.What is aggregate planning? Explain the steps in developing aggregate plan.**

**b.What are the objectives of Supply Chain Management? 5**

**Ans 5.**

**a. Aggregate Planning**

Aggregate planning is a crucial process in operations management that enables organizations to meet demand while optimizing resources and costs over a specified time horizon, typically ranging from three to 18 months. It involves developing an overall production plan for the intermediate term to achieve strategic goals and objectives.

**b. Objectives of Supply Chain Management**

Supply Chain Management (SCM) encompasses the coordination and integration of goods and services, information, and finances within and among organizations to effectively manage the flow of materials, services, and information from suppliers to customers. The

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**6.aWhy value analysis is conducted? List the benefits of value engineering.**

**b. Discuss the concept of 5S with reference to Just-In-Time.**

**Ans 6a.**

Value analysis is conducted to identify and eliminate unnecessary costs in a product, project, or process without sacrificing quality, functionality, or customer satisfaction. It is a systematic approach that focuses on improving value by assessing the function of products or

**Ans 6b.**

**Concept of 5S**

The concept of 5S is a systematic approach to workplace organization and housekeeping, originating from the Japanese words Seiri (Sort), Seiton (Set in order), Seiso (Shine), Seiketsu (Standardize), and Shitsuke (Sustain). It aims to create a clean, organized, and efficient workspace, ultimately leading to improved productivity and safety.

When considering 5S in the context of Just-In-Time (JIT) manufacturing, the relationship