**DOMS301 Advanced Production and Operations Management**

**Assignment Set – 1**

1. What are the key functions and responsibilities of operations managers, and how are they adapting to emerging business trends in Operations Management?

2. How does Porter’s value chain model link operations with marketing, and what role do the six Ps of operations mix play in managing the product life cycle?

3. Explain the concept of Break-Even Analysis in Operations Cost Management and discuss the factors that influence operations costs.

**Assignment Set – 2**

4. What are the key principles in designing integrated material handling systems, and why is an efficient layout crucial for effective material handling?

5. Define “Lean Operations” and explain how time-based competitiveness, design for manufacture, and simultaneous engineering contribute to operational efficiency.

6. What is Statistical Quality Control, and how do descriptive statistics and probability distribution play a role in ensuring product quality?

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