Module No.1: Introduction to Production and Operations Management

- 1. Define the concept of Production and Operations Management (Knowledge)
- 2. Differentiate between Production and Operations Management (Comprehension)
- 3. Analyze the scope of Production Management (Analysis)
- 4. Identify the types of Production Systems (Comprehension)
- 5. Evaluate the benefits of Production Management (Evaluation)
- 6. Describe the responsibilities of a Production Manager (Knowledge)
- 7. Discuss the key decisions involved in Production Management (Comprehension)

Module No. 2: Plant Location and Layout

- 1. Define the factors affecting plant location (Knowledge)
- 2. Explain the cost factors in plant location decisions (Comprehension)
- 3. Apply plant layout principles to optimize space requirements (Application)
- 4. Differentiate between various types of facilities and their organizational layout (Analysis)
- 5. Analyze the importance of building, sanitation, lighting, air conditioning, and safety in plant layout (Analysis)

Module No.3: Production Planning and Control

- 1. Define Production Planning and Control and its characteristics (Knowledge)
- 2. Identify the objectives of Production Planning and Control (Comprehension)
- 3. Describe the stages and scope of Production Planning & Control (Comprehension)
- 4. Analyze the factors influencing Production Planning and Control (Analysis)
- 5. Evaluate the role of Production Planning and Control in the manufacturing industry (Evaluation)

Module No. 4: Inventory Management

- 1. Define Inventory Management and its concepts (Knowledge)
- 2. Classify inventory and identify its objectives (Comprehension)
- 3. Analyze the factors affecting Inventory Control Policy (Analysis)
- 4. Evaluate inventory management systems and scientific techniques (Evaluation)
- 5. Apply EOQ Model, Re-order Level, ABC Analysis, VED, and FSN techniques (Application)
- 6. Discuss Quality Management concepts and tools such as Control Charts and acceptance sampling (Comprehension)

Module 5: Maintenance and Waste Management

- 1. Define maintenance and its objectives (Knowledge)
- 2. Classify types of maintenance and discuss spares planning and control (Comprehension)
- 3. Evaluate the advantages of preventive routine maintenance (Evaluation)
- 4. Analyze maintenance scheduling and equipment reliability (Analysis)
- 5. Discuss modern scientific maintenance methods and waste management strategies (Comprehension)