

IMRS (Rep) Sem.-5 Examination
IIS IMRS 52
Operations Planning & Mgmt.
December-2025

Time : 2.30 Hours]

[Max.Marks : 70

Q.1. Identify and explain characteristics of modern Production and Operations Management. [14]

Q.2. Define facility planning & explain key aspects of facility planning. [14]

OR

Q.2. Describe the different types of plant layouts commonly used in production and operations management. Why is selecting the right plant layout important for achieving operational efficiency and cost-effectiveness? [14]

Q.3. Imagine a company is considering expanding its production facility into either an urban Or a rural location. What factors should be evaluated to make this decision? [14]

OR

Q.3. Define product design & explain process of a product design with examples. [14]

Q.4. Why is inventory management considered a critical function in modern business operations? Explain its significance in ensuring cost efficiency, customer satisfaction, and organizational competitiveness in today's dynamic market environment [14]

OR

Q.4. Define capacity planning in the context of production and operations management. Why is capacity planning important for ensuring the efficient operation of manufacturing and service processes? [14]

Q.5. Choose the correct Options & Answer the questions. [Any seven.] [14]

1. List down various cost of inventory.
2. State types of capacity planning.
3. Define location analysis.
4. Types of tactical operations decisions.

5. Define Cellular layout.
 6. What is the primary goal of Total Quality Management (TQM) in operations?
 - A) Maximizing production speed
 - B) Reducing the cost of raw materials
 - C) Continuous improvement in product and process quality
 - D) Increasing the variety of products offered
 7. Which of the following methods is commonly used to analyze and prioritize products in inventory management?
 - A) Economic Order Quantity (EOQ)
 - B) ABC Analysis
 - C) Six Sigma
 - D) Lead-time Reduction
 8. Which of the following is NOT typically a factor affecting the location of a manufacturing plant?
 - A) Proximity to suppliers
 - B) Availability of skilled labor
 - C) Political stability
 - D) Product variety
 9. Which of the following is NOT a primary objective of inventory management?
 - A) Ensuring stock availability to meet customer demand
 - B) Minimizing inventory holding costs
 - C) Maximizing the number of products stocked
 - D) Maintaining a balance between inventory costs and customer service
 10. The term Safety Stock refers to:
 - A) Inventory that is used to meet unforeseen increases in demand or delays in supply
 - B) Inventory that is never used or sold
 - C) Inventory used exclusively for maintenance and repairs
 - D) The optimal order quantity for each product
-