

# Production and Operations Management – Answer Key

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## SECTION A – (10 x 2 = 20 marks)

1. 1. Write short note on optimal capacity:  
Optimal capacity is the level of output at which average cost per unit is minimized. It balances the utilization of resources without overburdening the system.
2. 2. Define capacity planning:  
Capacity planning is the process of determining the production capacity needed by an organization to meet changing demands for its products.
3. 3. How can capacity planning be improved?  
Capacity planning can be improved through demand forecasting, better scheduling, use of simulation models, and capacity utilization analysis.
4. 4. What do you mean by capacity?  
Capacity refers to the maximum output that an organization can produce under normal conditions.
5. 5. What are the stages of production planning and control?  
The stages include routing, scheduling, dispatching, and follow-up.
6. 6. What is lot sizing in the MRP system?  
Lot sizing is the process of determining the order quantity for production or purchases in Material Requirements Planning (MRP).
7. 7. How do you calculate aggregate production?  
Aggregate production is calculated by summing the planned production quantities across all products or services over a specific time horizon.
8. 8. Mention the five principles of lean manufacturing:  
1. Identify value 2. Map the value stream 3. Create flow 4. Establish pull 5. Seek perfection
9. 9. What do you mean by JIT?  
Just-In-Time (JIT) is a production strategy that strives to reduce in-process inventory and associated carrying costs by receiving goods only as they are needed.
10. 10. What is quality management process?  
It is a set of procedures that ensure that products and services meet customer expectations and regulatory requirements.

## SECTION B – (5 x 5 = 25 marks)

- 11. (a) Objectives of production management
  - To produce goods and services of the right quality
  - To produce in the right quantity
  - To ensure timely production

# Operations Management Answers

**Harry Anson Finney**



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### **Table of Contents Operations Management Answers**

1. Understanding the eBook Operations Management Answers
  - The Rise of Digital Reading Operations Management Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Operations Management Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Operations Management Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Operations Management Answers
  - Personalized Recommendations
  - Operations Management Answers User Reviews and Ratings

- Operations Management Answers and Bestseller Lists
- 5. Accessing Operations Management Answers Free and Paid eBooks
  - Operations Management Answers Public Domain eBooks
  - Operations Management Answers eBook Subscription Services
  - Operations Management Answers Budget-Friendly Options
- 6. Navigating Operations Management Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Operations Management Answers Compatibility with Devices
  - Operations Management Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Operations Management Answers
  - Highlighting and Note-Taking Operations Management Answers
  - Interactive Elements Operations Management Answers
- 8. Staying Engaged with Operations Management Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Operations Management Answers
- 9. Balancing eBooks and Physical Books Operations Management Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Operations Management Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Operations Management Answers
  - Setting Reading Goals Operations Management Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Operations Management Answers
  - Fact-Checking eBook Content of Operations Management Answers
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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