

**Eighth Semester B.E. Degree Examination, June/July 2016**  
**Operations Management**

Time: 3 hrs.

Max. Marks: 100

*Note: Answer any FIVE full questions, selecting  
atleast TWO questions from each part.*

**PART – A**

1. a. Define operation management. Draw the operations management system showing input and output model for an international airport. (06 Marks)  
b. Briefly explain how service producers differ from goods producers in important aspects of their operations. (06 Marks)  
c. With neat schematic sketch, explain the frame work for managing operations. (08 Marks)
2. a. Define decision making. Explain the frame work for decision making. (06 Marks)  
b. Two assembly robots X and Y working at the same rate together produce 400 filters per day. During a recent day, 40 filters were found defective, given that the filter is defective, there is 0.40 probability it was produced by robot X (i.e.,  $P_{X/D} = 0.40$ ). What is the probability that a filter selected at random is : i) Defective ii) Produced by robot Y iii) Defective and produced by robot X iv) Defective or produced by robot X. (04 Marks)  
c. Define BEP. Briefly explain the various methods of lowering the breakeven point. (10 Marks)
3. a. Briefly explain the following : i) Time series forecasting ii) Forecasting error and tracking signal. (10 Marks)  
b. The following table gives the annual shipment (tons) of welded tube by an aluminum producer to machinery manufacturers :

Year	2004	05	06	07	08	09	10	11	12	13	2014
Shipment (tons)	2	3	6	10	8	7	12	14	14	18	19

- Use the least square method to develop a linear trend equation for the data given, state the equation and forecast the shipment for 2015. (10 Marks)
4. a. Define capacity planning. Explain long-terms and short-terms capacity strategies. (05 Marks)  
b. The individual component capacities (in units/day) for an assembly line that consists of five activities are shown in the figure below Fig. Q4(b). (05 Marks)

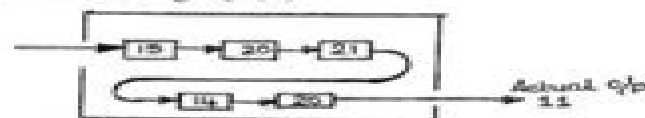


Fig. Q4(b)

- i) What is the system capacity?
- ii) What is the efficiency of the system?
- c. Annual demand for a manufacturing organization capacity is expected to be as follow :

Unit demanded	8000	10000	15000	20000
Probability	0.5	0.2	0.2	0.1

Revenues are ₹35/unit. The existing manufacturing facility has annual fixed cost/operation are ₹2 lakhs. Variable manufacturing cost are ₹7.75/unit, ₹5/unit, ₹5.33/unit & ₹7.42/unit at the 8000, 10000, 15000 and 20000 unit output level respectively. An expanded facility under consideration would require ₹2,50,000 fixed operating cost annually. Variable cost are ₹9.4/unit, ₹5.2/unit, ₹3.8/unit and ₹4.9/unit at the 8000, 10000, 15000, 20000 unit output level receptively. In order to maximize the earnings which size facility should be selected?

(10 Marks)

# Sample Question Paper Third Semester Mechanical

**Rachel S Tattersall**



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## **Table of Contents Sample Question Paper Third Semester Mechanical**

1. Understanding the eBook Sample Question Paper Third Semester Mechanical
  - The Rise of Digital Reading Sample Question Paper Third Semester Mechanical
  - Advantages of eBooks Over Traditional Books
2. Identifying Sample Question Paper Third Semester Mechanical
  - 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 Sample Question Paper Third Semester Mechanical
  - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Question Paper Third Semester Mechanical
  - Personalized Recommendations
  - Sample Question Paper Third Semester Mechanical User Reviews and Ratings
  - Sample Question Paper Third Semester Mechanical and Bestseller Lists
5. Accessing Sample Question Paper Third Semester Mechanical Free and Paid eBooks
  - Sample Question Paper Third Semester Mechanical Public Domain eBooks
  - Sample Question Paper Third Semester Mechanical eBook Subscription Services
  - Sample Question Paper Third Semester Mechanical Budget-Friendly Options
6. Navigating Sample Question Paper Third Semester Mechanical eBook Formats

- ePub, PDF, MOBI, and More
- Sample Question Paper Third Semester Mechanical Compatibility with Devices
- Sample Question Paper Third Semester Mechanical Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Sample Question Paper Third Semester Mechanical
  - Highlighting and Note-Taking Sample Question Paper Third Semester Mechanical
  - Interactive Elements Sample Question Paper Third Semester Mechanical
- 8. Staying Engaged with Sample Question Paper Third Semester Mechanical
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Sample Question Paper Third Semester Mechanical
- 9. Balancing eBooks and Physical Books Sample Question Paper Third Semester Mechanical
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Sample Question Paper Third Semester Mechanical
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Sample Question Paper Third Semester Mechanical
  - Setting Reading Goals Sample Question Paper Third Semester Mechanical
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sample Question Paper Third Semester Mechanical
  - Fact-Checking eBook Content of Sample Question Paper Third Semester Mechanical
  - 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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