

# LM503 Operations Management

## Problem Set 1 Solutions

Note: The full mark of this problem set is 60. You must show your work to fully justify your answers.

### 1. True or False (2 points)

- a. (1 point) Efficiency measures how well a process performs to meet customer requirements or to create value. (Justify your answer.)

False. Efficiency is the measure of how well inputs are transformed into outputs. It requires a process to be operated at the lowest possible cost. (Indeed, effectiveness measures how well a process performs.)

- b. (1 point) Capacity Rate =  $1 / \text{Flow Time}$ . (Justify your answer.)

False. Recall the McDonald's kitchen example on slide 71 of lecture notes #1. The flow time of the whole process is 36 seconds. However, the capacity rate is 360 orders per hour.  $1 / \text{Flow Time} = 1 / (36 \text{ seconds}) = 100 \text{ orders per hour}$ , which is much smaller than the capacity rate. (Indeed, capacity rate =  $1/\text{unit load of bottleneck}$ .)

### 2. Process Flow Analysis (12 points)

A certain product X consists of two major parts A and B. For the final assembly part A goes through the following two stations: painting color (3 mins), drying the new paint (10 mins). In parallel to part A, part B goes through the two stations: painting color (5 mins), drying the new paint (8 mins). Then the finished two parts will be connected (5 mins). Before the final packing station (3 mins), the product X is re-examined (5mins). Assume this is a fully automated process.

- a. (2 points) Draw a simple linear flow chart.



- b. (2 points) What is the theoretical flow time to finish one piece of X (ignoring time spent waiting in buffers between machines)?

Total flow time of X =  $\max \{3+10, 5+8\} + 5 + 5 + 3 = 26 \text{ minutes}$

- c. (2 points) Which station is the bottleneck? Justify your answer.

Bottleneck station possesses the lowest capacity among all stations in a process. Hence here the bottleneck is the station of drying A, with capacity 6 units/hr.

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**Diagrammatic Representation and Inference** Amrita Basu,Gem Stapleton,Sven Linker,Catherine Legg,Emmanuel Manalo,Petrucio Viana,2021-09-21 This book constitutes the refereed proceedings of the 12th International Conference on the Theory and Application of Diagrams Diagrams 2021 held virtually in September 2021 The 16 full papers and 25 short papers presented together with 16 posters were carefully reviewed and selected from 94 submissions The papers are organized in the following topical sections design of concrete diagrams theory of diagrams diagrams and mathematics diagrams and logic new representation systems analysis of diagrams diagrams and computation cognitive analysis diagrams as structural tools formal diagrams and understanding thought processes 10 chapters are available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)      **InfoWorld** ,1997-12-08 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects      *An Introduction to Business & Management Consultancy* Marc Baaij,2025-02-22 A practical step by step guide to learning and developing the proven successful methods and techniques of the world s leading management consultancy firms      *Fashion Marketing: Contemporary Issues* Tony Hines,Margaret Bruce,2012-10-12 Fashion Marketing is a book of key chapter contributions from renowned academics and practitioners that addresses many of the contemporary issues facing one of the world s largest and most global of industries With international contributions from the UK USA and China Fashion Marketing covers all of the key themes and issues of this area including forecasting sourcing supply chain management demand management new product development design management logistics range planning colour prediction market testing e commerce strategy Ideal for use on any undergraduate or postgraduate courses in Fashion Textiles Apparel and Retailing Management where there is a need to address the topic of fashion marketing this book will also serve as a

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Scientific and Technical Aerospace Reports, 1977

Applied Computational Technologies Brijesh Iyer, Tom Crick, Sheng-Lung Peng, 2022-05-14 This book is a collection of best selected research papers presented at 7th International Conference on Computing in Engineering and Technology ICCET 2022 organized by Dr Babasaheb Ambedkar Technological University Lonere India during February 12-13, 2022. Focusing on frontier topics and next generation technologies it presents original and innovative research from academics scientists students and engineers alike. The theme of the conference is Applied Information Processing System.

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