

OTTO-VON-GUERICKE-UNIVERSITY MAGDEBURG

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5014 Introduction to Management (WT 2003/4) - Final Exam

The following aids can be used: dictionary, calculator

You will be able to make a maximum of 50 points. There are a few pieces of advice we can offer

- Use the theoretical tools and terminology you have learned in class and from the textbook.
- Make sure there is a clear structure in your argument. (Use some time to sort your ideas before you start writing the version you want to submit.)
- Use the time you have! If you are ready much earlier than we planned you should wonder if you
- Remember: people have to be able to decipher what you write
- Leave a margin for our comments, so we can give you a more detailed feedback than just the

Examiners: Prof. Dr. Raith, Prof. Dr. Erichson, Prof. Dr. Reichling, Prof. Dr. Spengler, Prof. Dr. Burgard, Prof. Inderfurth, Prof. Luhmer, Prof. Dr. Wolff

Please solve four (4) of the following six (6) problems (maximum of 12,5 points per problem): Examination questions:

Question 1.3 Terminology

Define the following terms. Feel free to illustrate your definitions by examples

- Opportunity cost
- Bounded rationality
- Factoring
- No-par stock

Question(2:)Marketing

price falls by I Euro; additional 0.02 units can be sold if the average household income increases by I be 100 units. Euro. With both price and average household income set presumably at 0, demand for the product would The OVG Company observes the following pattern for its products: additional 25 units can be sold if the

- a) Derive the demand function for the products of the OVG Company.
- b) Given the average household income of 10000 Euro, what is the revenue-maximizing price?
- Calculate the price elasticity of demand for the revenue maximum. Is the demand elastic or inelas-
- d) Calculate the point elasticity of income. Is the product a normal or an inferior good?

Question(3:)Personnel

- a) What does "Personnel Requirement" mean? Which factors can affect the personnel requirement of a company? Justify your answer briefly.
- As a production manager in a joinery it is your task to ensure the production of 800 tables a day. 6 hours a day. How many employees do you need to succeed in producing 800 tables? You know that one employee is able to build a table in 1 hour and 10 minutes. All employees work

Question 4: Production and Cost

- What is a learning curve?
- Describe the difference between economies of scale and learning effects.
- What does the term economies of scope mean? What are some of the reasons that economies of

Illustrate the concepts using graphs and words

Question 5: Incorporation and Taxation

enterprise in Germany. Imagine you wish to start your own business to trade automobiles and you intend to incorporate your

- a) What alternatives do you have to legally incorporate your enterprise if you are only one person?
- b) Compare two of the legal forms you mentioned in part a) with the help of the following criteria

- iii. Authority to represent, to manage and to co-determinate
- Minimum capital and share

Please answer in brief outlines!

Question 6: Operational Financial Plan

- a) On December 31st, 2003 there were 100 units of material A in stock, valued at £17 per unit. In January 2004, 500 units were purchased at a price of €18 per unit. No material A was used for production in January. In February 2004, after 260 units were used for production, further 60 units were purchased at a price of €19 per unit.
- the value of the material A per unit according to the weighted average method at the end of
- the value per unit of the material A used for production in January 2004
- the total value of the material A in stock on February 29th, 2004
- The management of Smart Ltd. is considering investing in a new product line. The product line costs € 9000. The net cash inflow due to the new product line in the following 3 years is as follows (in Euro)

Year l Year 2 6000 2000

At the end of year 3, the product line must be disposed of at a cost of $\in 3000$ The interest rate on the market is 10%.

- i. What is the tied-up capital at the end of each year?
- ii. Using Net Present Value method, should the company invest in this product line?

Good Luck!