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MatrNr.		Name:	ZA
	Final Exam:	Economics and Management I	Teil 1
	rmai Exam:	Principles of Economics I (5004)	+Teil2
	Examiner:	Prof. Dr. Schwödiauer	
	Term:	Winter 2001/02	
No aids per	mitted except for E	nglish language dictionaries without any man	rking.

There are 25 different exercises on this exam. Make sure that this copy of the exam is complete and write your matriculation number and your name into the appropriate fields on top of this page. Work on all 25 questions. Do not mark more than one possible answer otherwise it is considered false. For every correct answer you obtain two points. For every false answer one point is subtracted. If no answer is marked you neither obtain nor loose a point. In order to pass this exam you need at least 25 points.

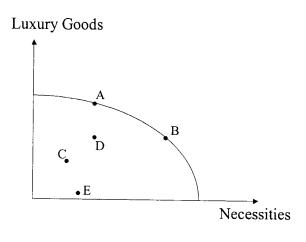
1.	Economists	only analyze	situations	in which	the scarce	goods	involved	are
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 a)	privately provided goods.
b)	publicly provided goods.
c)	either privately or publicly provided goods.

#### 2. Normative economics is concerned with

a)	the identification of policies leading to welfare gains
b)	policy recommendations based on value judgements.
c)	the explanation of economic situations

3. The following diagram depicts the production possibility set, its frontier and some outcomes. Which statement is true?



- A and B are both efficient. a) b) E is more efficient than D.
  - B isn't a technologically feasible consumption choice.

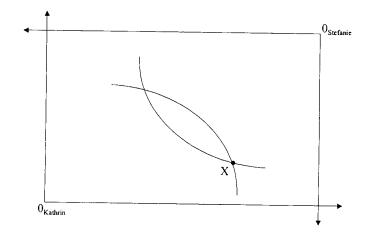
4.	By the elimination of a	negative production externality through a government an economy
	a) b) c)	becomes less efficient. extends is production possibility frontier. moves closer to its production possibility frontier.
5.	If the factor input prices	of all suppliers in a given market decrease sharply it is most m market price in the short run
	(a)	increases. falls. remains constant.
	b)	talls.
		remains constant.
6.	Since the market equilibremained unchanged, th	orium price of the pizza market increased while the demand curve e supply of pizzas must have
	(a)	increased.
	b)	decreased.
	c)	increased. decreased. responded in a way which cannot be predicted from the price movement alone.
7.		ence of price caps generates
	a) b) c)	always a market equilibrium where demand equals supply. always some form of rationing. sometimes some form of rationing.
	<del></del>	C
8.	If a profit-maximizing fi an increase in price leads	rm observes a price elasticity of its demand curve equal to 0.95, s to
	(a)	higher revenue.
		lower revenue.
	c)	unchanged revenue.
9.	Suppose the marginal proweek. If he works for thr	oduct of songwriter Robbie is constant and equals four songs per ee weeks then he produces
	(a)	exactly twelve songs.
	b)	a number of songs which cannot be inferred from the information
	<u> </u>	given.
	c)	either more or less than twelve songs.
	producing the same numb	washing machine hours for six hours of washing by hand while per of cleaned shirts. A labor hour costs €6 while employing a priced at €10. If Joey wants to minimize costs he should
	(a)	only employ washing machines.
	b)	only employ laborers.
		ho indifferent between the country of the country o

11. If marginal costs increa	ase and always exceed average costs, then average costs
(a)	increase.
b)	decrease.
c)	either increase, remain constant, or decrease.
aluminium decreases by	depicts a cost-minimizing input factor choice. If the price of y 15% and the price of steel decreases by 20% due to fiercer arkets, then a cost-minimizing firm should
	C XSteel
	Cont minimize in a second
	Cost-minimizing input mix
	Isoquant for 100
	auto parts
	Isocost line for X <sub>Aluminium</sub>
	\$1.000 Aluminium
a) b) c)	increase its use of aluminium and decrease its use of steel. increase its use of steel and decrease its use of aluminium. not change its input mix.
13. If the revenue of a profit firm should in the short	t-maximizing monopolist exceeds the firm's total costs, then the run
(a)	don't touch the level of production.
	increase its level of production.
c)	gather additional information if it wants to decide rationally on its level of production
14. If there are five firms in Herfindahl-Hirschmann-	an industry each having the same market share. Then the Index is equal to
(a)	20.
b)	2.000.
c)	cannot be calculated from these information alone.
15. What completes a true so competition where each	tatement? In an industry characterized by monopolistic monopolistic competitor maximizes its profit
a)	firms earn economic profits in the long run.
b)	firms earn economic profits in the short run and in the long run.
c)	firms don't earn positive economic profits in the long run.

16. If there are 5 firms in the firm-concentration ratio	industry and market s	shares are 5%, 10%,	40%, 15%, 30% the 3-	
b) (	equals 85%. equals 70%. equals 2.850.			
17. Two companies merge. The independently where to lo results:	ne CEOs Schmidt and cate the merger's new	I Jones suggest both headquarter. The f	n simultaneously and following strategic form	
	Sch	midt		
	London	Berlin	Utility of Schmidt	
London	- 5 15	0	Utility of Jones	
Jones	0	10		J
Berlin	0	10		
Mark the correct staten	ent:			
c) N  18. Consider the following str	Neither Schmidt nor J ategic form: Play		t strategy.	
	L	R	Utility of Player 2	
U Player 1	- 1	-1	Utility of Player 1	
D D	-1	- 1 1		
Mark the correct statem	ent:			
b) T	here exists no Nash-e here exists a unique N here exist four Nash-	Nash-equilibrium in	dominant strategies.	
19. If inflation in consumer goo	ods is measured using	a Laspeyres-index	then it is usually	
a) ur b) ov	nderestimated. rerestimated. ecisely measured		-	

20. Mark the correct statement	ent:
a) b) c)	If a consumer good is inferior then its quantity demanded increses as its price increases.  If the price of any good increases then its quantity demanded always drops.  If a price increase leads to an increase in demand then it must be inferior
priced at €2 per bag on a for one bag of peanuts a	chocolate which is priced at €1 per bar and 5 bags of peanuts weekly base. She is willing to exchange three bars of chocolate and vice versa while her utility remains unchanged. If she wants to g subject to her budget for sweets fixed at €20 then she should
a) b) c)	buy more chocolate and less peanuts. buy less chocolate and more peanuts. not change her consumption pattern.
22. If John's marginal utility consuming peanuts is 10	of consuming chocolate is 8 and the marginal utility of then utility-maximizing John should
a) b) c)	buy more peanuts and less chocolate. not change his consumption pattern. equalize marginal rates of substitution and relative prices.

23. The following figure depicts a typical Edgeworth-box. Mark the correct statement:



a)	There is no Pareto-improvement possible.
b)	Allocation X is Pareto-efficient.
 c)	Allocation X is not Pareto-efficient.

24. Suppose that the economies Potterville and Fantasia are both closed, i.e. there is no trade between those economies (or with any other one). In Potterville and Fantasia the two goods brooms and crystal balls are produced with labor being the only factor of production. The following table summarizes the available production technology in each economy:

	<del>-</del>	or for Production or hours
	In Potterville	In Fantasia
1 broom	4	6
1 crystal ball	2	2

If both economies engage in trade in the absence of any transaction costs (such as costs of transportation), the principle of comparative advantage predicts that

(a)	Potterville specializes in the production of brooms and imports crystal
	balls from Fantasia.
b)	Potterville specializes in the production of crystal balls and imports
	brooms from Fantasia.
c)	there is no trade because it is not beneficial to Potterville.

25. Today's value of receiving €100 in one year from now where the current rate of interest is given by 25% is

	a)	impossible to calculate with the given information
		equal to €75.
	c)	equal to €80.



# OTTO-VON-GUERICKE-UNIVERSITY MAGDEBURG

CHAIR OF INTERNATIONAL MANAGEMENT Faculty of Economics & Management PROF. DR. BIRGITTA WOLFF

# 5004 Introduction to Management (WS 2001/2) - Final Exam

tronomics and Hampenenl I

nal Exam

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

- 1. Use the theoretical tools and terminology you have learned in class and from the textbook
- 2. 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 forgot something. ć
- Remember: people have to be able to decipher what you write.

4

5. Leave a margin for our comments, so we can give you a more detailed feed-back than just the number of points.

re is the set of problems

aminers: Prof. Dr. Erichson, Prof. Inderfurth, Prof. Luhmer, Prof. Dr. Raith, Prof. Dr. Reichling,

of. Dr. Spengler, Prof. Dr. Wolff

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

u are welcome to use a dictionary and a calculator.

### estion 1: Terms

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

- a) Utility maximization
  - b) Bounded rationality
    - c) Merchant
- d) Commercial Registere) Limited Partnership

## estion 2: Decision Making

ppose that an investment can yield three possible cash flows: \$5 000; \$1 000; or \$0. The probability of h outcome is 1/3

What is the expected value and standard deviation of the investment?

a)

- How much would a risk-neutral person be willing to pay for the investment?
  - How much would a risk-averse person be willing to pay for the investment?

## Question 3: Marketing

Explain the notion of market segmentation. You are welcome to use an example to illustrate your expla-

#### Question 4: Financials

- a) Describe the basic procedure for a new issue of equity.
  - Define the following terms:
- public issue
- private issue
- general cash offer
- rights offer
- Greenshoe

## Question 5: Learning & Experience Effects

- a) What is the meaning of a 70% experience curve?
   b) Which factors cause experience effects?

# Question 6: Financial Planning and Financial Performance

The beginning balance sheet per Jan. 1st, 2002 for a business looks like this:

е 300 ? Debt Equity 100 400 50 Cash + Bank Fixed assets Inventory

Budgeted sales for 2002 are € 1000 while the target sales growth for next year is 40%. The profit margin is assumed to remain constant at 25% 10% interest on the debt is due at the end of each year. The relations between asset items in the beginning balance sheet and budgeted sales remain the same for each

#### Required:

- Complete the beginning balance sheet for 2002.
- Calculate operating income and interest expense expected for 2002.
  - Determine the pro forma balance sheet per Dec. 31st, 2003.
- Is the growth rate of 40% feasible from the financial planning point of view if the firm cannot acquire additional funds from external sources? What dividend is affordable for 2002?

Good Luck!

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