Masaryk University - Brno Department of Economics – Faculty of Economics and Administration Lipová 507/41a, Pisárky, Brno

BPE_MIC1 Microeconomics 1 – Fall Semester 2010

Preliminary Final Exam 2 - 13.12.2010, 9:00 - 10:30 a.m.

Guidelines and Rules:

- 1. The test setup has 8 pages. It is your responsibility to check that you have all the pages.
- 2. The time limit is 90 minutes.
- 3. The exam is worth 50 points.
- 4. You are NOT allowed to use any books or notes.
- 5. Any violation of academic honesty will be punished to the fullest extent possible.
- 6. At most one exam-taker is allowed to be outside the room at one time.
- 7. Write the answers in the spaces corresponding to the respective questions in the setup sheet.
- 10. When ready, **submit** the filled setup sheet with **your name** written on the first page.

This exam will count for 50% of your final grade from the course. Good luck!

Fill the gaps

Complete each statement.

1.	If a group of oligopolists fail to collude the price w higher than the price in	ill be lower than the price in	but
2.	If Europeans import cars, it is because thelower than in Europe.	of producing them elsewl	here is
3.	The demand for labor is considered to bedemand for the end product that labor produces.	because it is preconditioned by	the
4.	A is a firm whose busine total cost curve continually declines at least to the continually declines at least to the continual total cost curve.		s average
5.	In perfectly competitive factor market the price of t	he factor equals	
6.	A factor exhibits if the of input decreases as the quantity of the input incre		tional unit
7.	The height of the supply curve at any quantity is eq	ual to the seller's	
8.	firms produce at less than ecost.	efficient scale and charge prices in excess of	f marginal
9.	If prisoners' dilemma game is played once, the	for both players is to c	confess.
10.	An increase in price will increase total revenue if the	e demand is	
True/False Indicate wh	e hether the statement is true or false.		
11.	An increase in the price of pizza will shift the demand cu	rve for pizza to the left.	

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Test Version: B

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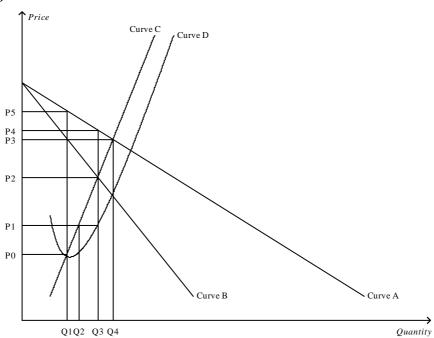
12.	Although economists and accountants treat many costs differently, they both treat the cost of capital the	same.

- 13. The economic field of industrial organization examines how firms' decisions about prices and quantities depend on the market conditions they face.
- ___ 14. Even with market power, monopolists cannot achieve any level of profit they desire because they will sell lower quantities at higher prices.
- ____ 15. The principle of comparative advantage states that, regardless of the price at which trade takes place, everyone will benefit from trade if they specialize in the production of the good for which they have a comparative advantage.
 - ___ 16. When two goods are perfect complements, the indifference curves are right angles.
- ____ 17. In order to calculate the value of the marginal product of labor, a manager must know the marginal product of labor and the wage rate of the worker.
- _____ 18. The willingness to pay is the maximum amount that a buyer will pay for a good and measures how much the buyer values the good.
- _____ 19. A profit-maximizing firm in a competitive market will increase production when average revenue exceeds marginal cost.
- 20. Monopolistic competition is characterized by many buyers and sellers, product differentiation, and barriers to entry.

Multiple Choice

Identify the choice that best completes the statement or answers the question.

21. Figure 15-5



Refer to Figure 15-5. A profit-maximizing monopoly's profit is equal to

a. (P4-P1) x Q3.

c. (P5-P0) x Q1.

b. (P4-P2) x Q3.

d. P4 x Q3.

22. **Refer to Figure 15-5**. At the profit-maximizing level of output,

- a. average revenue is equal to P4.
- c. marginal cost is equal to P3.
- b. average total cost is equal to P0.
- d. marginal revenue is equal to P3.

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 23.	Refer to Figure 15-5. Pa	rofit on a typical unit sold f	or a p	profit-maximiz	ing monopoly would equal
	a. P4-P3.		c.	P5-P0.	
	b. P4-P1.		d.	P4-P2.	
 24.	Kelly and David are both possible?	n capable of repairing cars	and c	ooking meals.	Which of the following scenarios is <i>not</i>
	a. Kelly has a compara	ative advantage in repairing	g cars	and in cookin	g meals.
	 Kelly has a comparation cooking meals. 	ative advantage in repairing	g cars	and David ha	s a comparative advantage in
	 Kelly has an absolu meals. 	te advantage in repairing ca	ars an	nd David has a	n absolute advantage in cooking
	d. David has an absolu	ite advantage in repairing c	ars a	nd in cooking	meals.
 25.	If the price elasticity of decrease in the quantity of		ien w	hich of the fol	lowing events is consistent with a 4 percent
		se in the price of the good	c.	a 4.8 percent	increase in the price of the good
	_	in the price of the good	d.	_	increase in the price of the good
26.	Which of the following s	statements is correct?			
	a. Although the logic				utput above the monopoly level,
	b. Although the logic		duop	oly's price bel	ow the monopoly price, it does
		sfully collude, then their coif the market were a monop		ned output will	be equal to the output that
	d. All of the above are	correct.	•		
27.	Which of the following s	statements is correct?			
	a. Economic theory su	ggests that there is a close J.S. economy fails to confin			ctivity and real wages, but
		neory nor evidence from the			gests that there is a close link
	c. Evidence from the V			nk between pr	oductivity and real wages, but
		ory and evidence from the U		economy sugge	est that there is a close link
28.	When a market is monor	oolistically competitive, the	typic	cal firm in the	market is likely to experience a
	_	profit in the short run and			
		ort run and in the long run.		-	-
	-	ort run and a positive or ne	gativ	e profit in the	long run.
	d. positive profit in the	e short run and in the long i	un.		

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29.	Table 17-4. The information in the table below shows the total demand for high-speed Internet subscriptions in a
	small urban market. Assume that each company that provides these subscriptions incurs an annual fixed cost of
	\$200,000 (per year) and that the marginal cost of providing an additional subscription is always \$80.

Quantity	Price (per year)
0	\$320
2,000	\$280
4,000	\$240
6,000	\$200
8,000	\$160
10,000	\$120
12,000	\$ 80
14,000	\$ 40
16,000	\$ 0

Refer to Table 17-4. Suppose there is only one high-speed Internet service provider in this market and it seeks to maximize its profit. The company will

- a. sell 10,000 subscriptions and charge a price of \$120 for each subscription.
- b. sell 12,000 subscriptions and charge a price of \$80 for each subscription.
- c. sell 6,000 subscriptions and charge a price of \$200 for each subscription.
- d. sell 8.000 subscriptions and charge a price of \$160 for each subscription.

	u. sen 6,000 subscriptions and char	ge a price of \$100 for each subscription.	
 30.	market. Further assume that they are	re two profit-maximizing high-speed Internet service providers operationable to collude on the quantity of subscriptions that will be sold and on tions. How much profit will each company earn?	_
	a. \$210,000	c. \$120,000	
	b. \$160,000	d. \$80,000	
 31.	this market. Further assume that they	are are two profit-maximizing high-speed Internet service providers operare not able to collude on the price and quantity of subscriptions to sell this market reaches a Nash equilibrium?	_
	a. \$200,000	c. \$225,000	
	b. \$150,000	d. \$120,000	
 32.		re two high-speed Internet service providers that operate in this market subscriptions that will be sold and on the price that will be charged for Il stipulate that	-
	a. each firm will charge a price of	5120 and each firm will sell 5,000 subscriptions.	
	b. each firm will charge a price of S	5200 and each firm will sell 3,000 subscriptions.	
	c. each firm will charge a price of S	5100 and each firm will sell 3,000 subscriptions.	
		6160 and each firm will sell 4,000 subscriptions.	
 33.		re two high-speed Internet service providers operating in this market. Felse on the price and quantity of subscriptions to sell. What price will the	

34. **Refer to Table 17-4**. Assume there are two profit-maximizing high-speed Internet service providers operating in this market. Further assume that they are not able to collude on the price and quantity of subscriptions to sell. How many subscriptions will be sold altogether when this market reaches a Nash equilibrium?

\$240

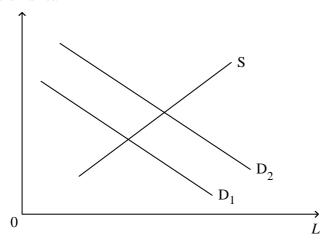
a. 8,000b. 6,000c. 12,000d. 10,000

for a subscription when this market reaches a Nash equilibrium?

a. \$120b. \$160

35. Figure 18-4

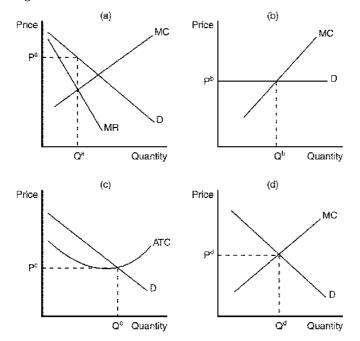
This figure below shows the labor market for automobile workers. The curve labeled S is the labor supply curve, and the curves labeled D_1 and D_2 are the labor demand curves. On the horizontal axis, L represents the quantity of labor in the market.



Refer to Figure 18-4. Which of the following events would most likely explain a shift of the labor-demand curve from D_2 back to D_1 ?

- a. A technological advance increased the marginal product of automobile workers.
- b. The price of automobiles decreased.
- c. An increase in the demand for automobiles.
- d. A large number of immigrants entered the automobile-worker market.
- 36. If an oligopolist is part of a cartel that is collectively producing the monopoly level of output, then that oligopolist has the incentive to lower production with the aim of
 - a. increasing profits for itself, regardless of the impact on profits for the group of firms as a whole.
 - b. increasing profits for the group of firms as a whole.
 - c. lowering prices.
 - d. None of the above is correct.
- _ 37. On a 100-acre farm, a farmer is able to produce 3,000 bushels of wheat when he hires 2 workers. He is able to produce 4,400 bushels of wheat when he hires 3 workers. Which of the following possibilities is consistent with the property of diminishing marginal product?
 - a. The farmer is able to produce 5,800 bushels of wheat when he hires 4 workers.
 - b. The farmer is able to produce 6,000 bushels of wheat when he hires 4 workers.
 - c. The farmer is able to produce 5,600 bushels of wheat when he hires 4 workers.
 - d. Any of the above could be correct.

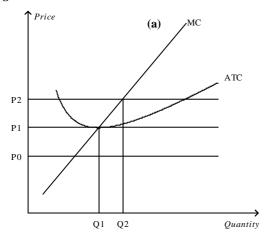
38. Figure 16-6

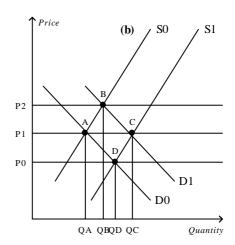


Refer to Figure 16-6. The firm depicted in panel b faces a horizontal demand curve. If panel b depicts a profit-maximizing firm,

- a. it could be operating in either a perfectly competitive market or in a monopolistically competitive market.
- b. it would not have excess capacity in its production as long as it is earning zero economic profit.
- c. the firm can always raise its profit by increasing production since consumers will buy as much as the firm can produce.
- d. it is able to choose the price at which it sells its product.
- 39. If "too much choice" is a problem for consumers, it would occur in which market structure(s)?
 - a. monopolistic competition
 - b. perfect competition
 - c. monopoly
 - d. perfect competition and monopolistic competition
- 40. Suppose that 500 candy bars are demanded at a particular price. If the price of candy bars rises from that price by 10 percent, the number of candy bars demanded falls to 480. Using the midpoint approach to calculate the price elasticity of demand, it follows that the
 - a. price elasticity of demand for candy bars in this price range is about 0.41.
 - b. demand for candy bars in this price range is unit elastic.
 - c. price elasticity of demand for candy bars in this price range is about 0.24.
 - d. price increase will decrease the total revenue of candy bar sellers.

41. Figure 14-9





Refer to Figure 14-9. Assume that the market starts in equilibrium at point A in panel (b). An increase in demand from D0 to D1 will result in

- a. an eventual increase in the number of firms in the market and a new long-run equilibrium at point C.
- b. rising prices and falling profits for existing firms in the market.
- c. a new market equilibrium at point D.
- d. falling prices and falling profits for existing firms in the market.
- 42. If Shawn can produce donuts at a lower opportunity cost than Sue, then
 - a. Sue has a comparative advantage in the production of donuts.
 - b. Shawn should not produce donuts.
 - c. Shawn has a comparative advantage in the production of donuts.
 - d. Shawn is capable of producing more donuts than Sue in a given amount of time.
- 43. Which of the following statements is correct for a monopolist?
 - i) The firm maximizes profits by equating marginal revenue with marginal cost.
 - ii) The firm maximizes profits by equating price with marginal cost.
 - iii) Demand equals marginal revenue.
 - iv) Average revenue equals price.
 - a. i), ii), iii), and iv)
 - b. and iv) only
 - c. i), iii), and iv) only
 - d. i), ii), and iv) only
 - e. CHOICE BLANK

44. Lois is a self-employed pet sitter. She can make 20 "housecalls" per day. She is considering hiring her sister Dora to work for her. Both she and Dora can visit 35 houses per day. What is Dora's marginal product?

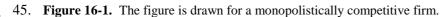
a. 22.5

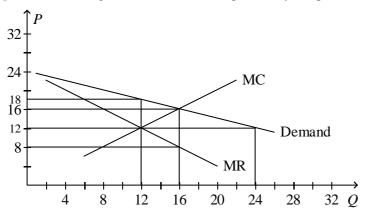
c. 55

b. 15

d. 35

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Refer to Figure 16-1. The firm's profit-maximizing level of output is

a. 12 units.

c. 8 units

b. 24 units.

d. 16 units.

- 46. If a seller in a competitive market chooses to charge more than the going price, then
 - a. buyers will make purchases from other sellers.
 - b. the owners of the raw materials used in production would raise the prices for the raw materials.
 - c. the sellers' profits definitely would increase.
 - d. other sellers would also raise their prices.
- 47. A monopolistically competitive firm faces the following demand schedule for its product:

Price (\$)	10	9	8	7	6	5	4	3	2	1
Quantity	2	4	6	9	11	13	15	17	19	21

The firm has total fixed costs of \$20 and a constant marginal cost of \$2 per unit. The firm will maximize profit with

a. 6 units of output.

c. 13 units of output.

b. 11 units of output.

d. 9 units of output.

48. *Table 7-7*

The only four producers in a market have the following cost:

Seller	Cost
Charlie	\$50
Quinn	\$100
Wrex	\$150
Maxine	\$200

Refer to Table 7-7. If the sellers bid against each other for the right to sell the good to a consumer, then the producer surplus will be

a. \$50 or slightly less.

c. \$200 or slightly more.

b. \$0 or slightly more.

d. \$150 or slightly less.

49. **Refer to Table 7-7.** If Charlie, Quinn, and Wrex sell the good, and the resulting producer surplus is \$300, then the price must have been

a. \$200.

c. \$600.

b. \$300.

d. \$450.

50. Laura consumes only beer and chips. Her indifference curves are all bowed inward. Consider the bundles (2,6), (4,4), and (6,2). If Laura is indifferent between (2,6) and (6,2), then Laura must

a. be indifferent between (4,4) and (6,2).

c. prefer (2,6) to (4,4).

b. prefer (6,2) to (4,4).

d. prefer (4,4) to (6,2).

Test Version: B

Preliminary Final Exam 2 - 13.12.2010, 9:00 - 10:30 a.m. Answer Section

COMPLETION

- 1. ANS: monopoly, perfect competition
 - PTS: 1
- 2. ANS: opportunity cost
 - PTS: 1
- 3. ANS: derived demand
 - PTS: 1
- 4. ANS: natural monopolist
 - PTS: 1
- 5. ANS: the value of its marginal product
 - PTS: 1
- 6. ANS: diminishing marginal productivity
 - PTS: 1
- 7. ANS: marginal cost
 - PTS: 1
- 8. ANS: Monopolistically competitive
 - PTS· 1
- 9. ANS: dominant strategy
 - PTS: 1
- 10. ANS: inelastic
 - PTS: 1

TRUE/FALSE

11.	ANS:	F	PTS:	1	DIF:	2	REF:	4-2
		Demand curve		_	MSC:	Applicative		. –
12.	ANS:	F	PTS:	1	DIF:	2	REF:	13-1
	TOP:	Economic pro	fit Ac	counting profit			MSC:	Interpretive
13.	ANS:	T	PTS:	1	DIF:	2	REF:	13-0
	TOP:	Industrial orga	anizatio	n	MSC:	Interpretive		
14.	ANS:	T	PTS:	1	DIF:	2	REF:	15-0
	TOP:	Monopoly	MSC:	Interpretive				
15.	ANS:	F	PTS:	1	DIF:	2	REF:	3-2
	TOP:	Comparative a	advanta	ge	MSC:	Interpretive		
16.	ANS:	T	PTS:	1	DIF:	1	REF:	21-2

TOP: Perfect complements MSC: Interpretive

17.	ANS:	F PTS: 1	DIF: 2	REF: 18-1								
	TOP:	Value of the marginal product	_									
18.	ANS:		DIF: 1									
		Willingness to pay	MSC: Definitiona									
19.		T PTS: 1	DIF: 2									
20		Average revenue	MSC: Interpretive									
20.		F PTS: 1	DIF: 1 MSC: Definition									
	TOF.	Monopolistic competition	MSC. Definition	11								
MULTIPLE CHOICE												
21.	ANS:	A PTS: 1	DIF: 2	REF: 15-2								
		Profit MSC: Analytical										
22.		A PTS: 1	DIF: 2	REF: 15-2								
	TOP:	Average revenue	MSC: Interpretive	e								
23.	ANS:		DIF: 2	REF: 15-2								
	TOP:	Profit MSC: Analytical										
24.	ANS:		DIF: 2	·								
		Comparative advantage	MSC: Applicative									
25.	ANS:		DIF: 2									
		Price elasticity of demand										
26.	ANS:		DIF: 2	REF: 17-1								
27		Duopoly MSC: Interpretive	DIE 0	DEE 10.2								
21.		D PTS: 1 Productivity Wages	DIF: 2	REF: 18-3								
28	ANS:		DIF: 2	REF: 16-2								
20.		Short-run equilibrium Long-run ed		MSC: Analytical								
29	ANS:			REF: 17-1								
27.		Monopoly MSC: Applicative	DH . 3	1121. 17.1								
30.	ANS:		DIF: 3	REF: 17-1								
	TOP:	Duopoly Collusion	MSC: Applicative	e								
31.	ANS:	D PTS: 1	DIF: 3	REF: 17-1								
	TOP:	Nash equilibrium	MSC: Applicative	ę								
32.	ANS:	B PTS: 1	DIF: 3	REF: 17-1								
		Duopoly Collusion	MSC: Applicative	e								
33.	ANS:		DIF: 3	REF: 17-1								
		Nash equilibrium	MSC: Applicative									
34.	ANS:		DIF: 3	REF: 17-1								
25		Nash equilibrium	MSC: Applicative									
35.	ANS:		DIF: 2	REF: 18-3								
26	ANS:	Labor-market equilibrium D PTS: 1	MSC: Interpretive DIF: 2	REF: 17-1								
30.		Cartels MSC: Analytical	DIF. 2	ΚΕΓ. 1/-1								
37	ANS:	•	DIF: 2	REF: 13-2								
31.		Diminishing marginal product	MSC: Analytical	KLI. 13-2								
38	ANS:		DIF: 2	REF: 16-2								
20.		Profit maximization	MSC: Interpretive									
39.	ANS:		DIF: 2	REF: 16-2								
		Monopolistic competition	MSC: Interpretive									
		•	•									

40.	ANS:	A	PTS:	1	DIF:	3	REF:	5-1
	TOP:	Midpoint meth	nod To	otal revenue P	rice ela	asticity of dema	ınd	
	MSC:	Applicative						
41.	ANS:	A	PTS:	1	DIF:	2	REF:	14-3
	TOP:	Long-run supp	oly curv	ve .	MSC:	Analytical		
42.	ANS:	C	PTS:	1	DIF:	2	REF:	3-2
	TOP:	Comparative a	ıdvanta	ge	MSC:	Applicative		
43.	ANS:	E	PTS:	1			REF:	15-2
	TOP:	Marginal reve	nue A	Average revenue	•		MSC:	Interpretive
44.	ANS:	В	PTS:	1	DIF:	2	REF:	13-2
	TOP:	Marginal prod	uct		MSC:	Analytical		
45.	ANS:	A	PTS:	1	DIF:	2	REF:	16-2
	TOP:	Profit maximiz	zation		MSC:	Applicative		
46.	ANS:	A	PTS:	1	DIF:	1	REF:	4-1
	TOP:	Competitive m	narkets		MSC:	Definitional		
47.	ANS:	D	PTS:	1	DIF:	3	REF:	16-2
	TOP:	Profit maximiz	zation		MSC:	Applicative		
48.	ANS:	A	PTS:	1	DIF:	3	REF:	7-2
	TOP:	Price Cost P	roduce	er surplus	MSC:	Analytical		
49.		A			DIF:	3	REF:	7-2
	TOP:	Price Cost P	roduce	er surplus	MSC:	Analytical		
50.	ANS:	D	PTS:	1	DIF:	2	REF:	21-2
	TOP:	Indifference co	urves		MSC:	Analytical		