BPE_MIC1 Microeconomics 1 - Fall Semester 2010

Final exam - 24.01.2011, 1:30 - 3:00 p.m.

Test Version: B

Guidelines and Rules:

1. The test setup has 7 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. The advantage of a producer of a good to another based on their productivity is called
- 2. ______ simplify the economic reality based on assumptions.
- 3. ______ is the rate at which a consumer is willing to trade one good for another.
- 4. ______ describes the world in a way that can be verified by factual evidence.
- 5. The quantity that minimizes average total cost is called ______.
- 6. ______ is what a producer pays to use a factor for a limited period of time.
- 7. Two goods with straight-line indifference curves are _____.
- 8. The change in consumption that results when a price change moves the consumer along a given indifference curve is called _______ .
- 9. Market with sellers offering slightly different products is ______.
- 10. Two goods for which an increase in the price for one leads to an increase in the demand for the other are called ______.

True/False

Indicate whether the statement is true or false.

- 11. The economic field of industrial organization examines how firms' decisions about prices and quantities depend on the market conditions they face.
- _____ 12. While the production possibilities frontier is a useful model, it cannot be used to illustrate economic growth.
- 13. Some countries win in international trade, while other countries lose.

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- _____ 14. The law of demand is true for most goods in the economy.
- 15. Producing a soccer ball costs Jake \$5. He sells it to Darby for \$35. Darby values the soccer ball at \$50. For this transaction, the total surplus in the market is \$40.
- 16. Necessities tend to have inelastic demands, whereas luxuries have elastic demands.
- 17. Susie wins \$1 million in her state's lottery. If Susie keeps working after she wins the money, we can infer that the income effect is larger than the substitution effect for her.
- 18. The marginal rate of substitution is the slope of the budget constraint.
- _____ 19. A decrease in income will shift the demand curve for an inferior good to the right.
- 20. Let *L* represent the quantity of labor and let *Q* represent the quantity of output. Suppose a certain production function includes the points (L = 7, Q = 27), (L = 8, Q = 35), and (L = 9, Q = 45). Based on these three points, this production function exhibits diminishing marginal product.

Multiple Choice

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

21. Table 13-1

Alyson's Pet Sitting Service						
Number of	Output (number of					
Workers	pet visits)					
0	0					
1	20					
2	45					
3	60					
4	70					

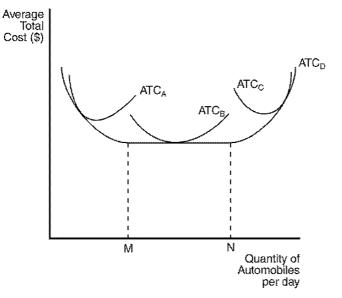
Refer to Table 13-1. What is the marginal product of the second worker?

- a.15c.25b.22.5d.20
- 22. **Refer to Table 13-1.** Alyson's pet sitting service experiences diminishing marginal productivity with the addition of the
 - a. third worker. c. second worker.
 - b. first worker. d. fourth worker.
- 23. **Refer to Table 13-1.** Suppose that Alyson's pet sitting service has a fixed cost of \$50 per month for her cell phone. Each worker costs Alyson \$60 per day. What is the shape of Alyson's total cost curve as output increases from 0 to 45?
 - a. Total cost decreases but gets steeper.
- c. Total cost increases and gets steeper.
- b. Total cost increases but gets flatter. d. Total cost decreases and gets flatter.
- 24. Which of the following statements is *not* correct about a market in equilibrium?
 - a. Those sellers whose costs are less than the price choose to produce and sell the good.
 - b. Consumer surplus will be equal to producer surplus.
 - c. Those buyers who value the good more than the price choose to buy the good.
 - d. The price determines which buyers and which sellers participate in the market.
- ____ 25. In the long run, when marginal cost is above average total cost, the average total cost curve exhibits
 - a. diseconomies of scale. c. efficient scale.
 - b. economies of scale. d. constant returns to scale.

- 26. If a competitive firm is currently producing a level of output at which marginal cost exceeds marginal revenue, then
 - a. a one-unit increase in output will increase the firm's profit.
 - b. total cost exceeds total revenue.
 - c. a one-unit decrease in output will increase the firm's profit.
 - d. total revenue exceeds total cost.

_ 27. Figure 13-9

The figure below depicts average total cost functions for a firm that produces automobiles.

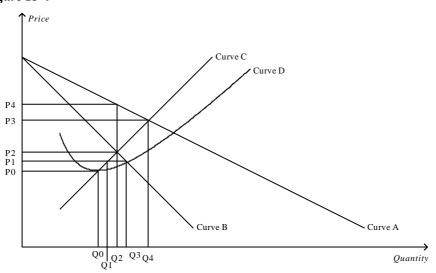


Refer to Figure 13-9. The firm experiences economies of scale at which output levels?

- a. output levels greater than N
- b. output levels less than M
- c. output levels between M and N
- d. All of the above are correct as long as the firm is operating in the long run.
- _ 28. The scientific method is
 - a. the use of modern technology to understand the way the world works.
 - b. the use of controlled laboratory experiments to understand the way the world works.
 - c. the dispassionate development and testing of theories about how the world works.
 - d. the search for evidence to support preconceived theories about how the world works.
- _____ 29. When two goods are perfect complements, the indifference curves are
 - a. straight lines. c. negatively sloped.
 - b. positively sloped. d. right angles.
- <u>30.</u> Firm A is a perfectly competitive firm. Firm B is a monopolistically competitive firm. Both firms are currently maximizing their respective profits. Which of the following statements is correct?
 - a. Both Firm A and Firm B would be eager to make an additional sale.
 - b. Neither Firm A nor Firm B would care whether it made an additional sale or not.
 - c. Firm A would be eager to make an additional sale, but Firm B would not care whether it made an additional sale or not.
 - d. Firm B would be eager to make an additional sale, but Firm A would not care whether it made an additional sale or not.

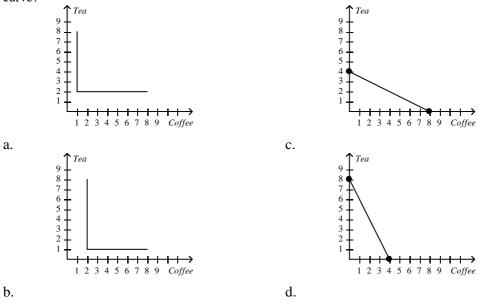
- 31. Consider the labor market for computer programmers. Because of the dot.com boom in the late 1990s, a lot of workers went to school to learn how to write computer code for one of thousands of new dot.com companies. However, when these computer programming students graduated, the dot.com bust took place. The dot.com bust decreased the value of the marginal product of computer programmers. Holding all else equal, what effect did these two circumstances have on the equilibrium wage in the labor market for computer programmers?
 - a. It is not possible to determine what happens to the equilibrium wage.
 - b. The equilibrium wage did not change.
 - c. The equilibrium wage increased.
 - d. The equilibrium wage decreased.
- 232. If a production possibilities frontier is bowed outward, then the opportunity cost of producing more of the first good is highest when
 - a. the economy is producing little of the first good and much of the second good.
 - b. the economy is producing equal amounts of the first and second goods.
 - c. the economy is producing much of the first good and little of the second good.
 - d. None of the above is correct because the opportunity cost of producing more of the first good is constant.
- 33. A weaker demand together with a stronger supply would necessarily result in
 - a. a higher price. c. a decrease in equilibrium quantity.
 - b. an increase in equilibrium quantity. d. a lower price.
 - 34. Each firm in a monopolistically competitive firm faces a downward-sloping demand curve because
 - a. there are very few other sellers in the market.
 - b. the firm's product is different from those offered by other firms in the market.
 - c. there are many other sellers in the market.
 - d. that firm faces the threat of entry into the market by new firms.
 - 35. If government regulation sets the maximum price for a natural monopoly equal to its marginal cost, then the natural monopolist will
 - a. earn economic losses.
 - b. earn zero economic profits.
 - c. produce a lower quantity of output than is socially optimal.
 - d. earn economic profits.
 - <u>36.</u> The Sherman Act made cooperative agreements
 - a. a crime, but did not give direction on possible penalties.
 - b. enforceable with proper judicial review.
 - c. unenforceable outside of established judicial review processes.
 - d. a criminal conspiracy.

_____ 37. Figure 15-4



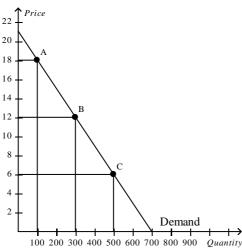
Refer to Figure 15-4. If the monopoly firm is currently producing Q3 units of output, then a decrease in output will necessarily cause profit to

- a. increase as long as the new level of output is at least Q2.
- b. decrease.
- c. remain unchanged.
- d. increase as long as the new level of output is at least Q1.
- 38. Refer to Figure 15-4. A profit-maximizing monopoly's total revenue is equal to
 - a. (P4-P2) x Q2. c. P4 x Q2.
 - b. (P4-P3) x Q2. d. P3 x Q4.
- 39. Suppose Caroline is indifferent between tea and coffee as long as she consumes an equivalent amount of caffeine. Suppose that coffee has twice as much caffeine as tea. Which graph would illustrate a representative indifference curve?



- 40. A profit-maximizing firm in a competitive market is currently producing 200 units of output. It has average revenue of \$9 and average total cost of \$7. It follows that the firm's
 - average variable cost curve intersects the marginal cost curve at an output level of less than 200 a. units.
 - b. average total cost curve intersects the marginal cost curve at an output level of less than 200 units.
 - c. profit is \$400.
 - All of the above are correct. d.

41. Figure 5-6



Refer to Figure 5-6. Using the midpoint method, the price elasticity of demand between point A and point B is a. 1.5. c. 2.

1. 2.5. b. d.

42. **Refer to Figure 5-6**. Which of the following price changes would result in no change in sellers' total revenue?

- The price decreases from \$9 to \$5. The price increases from \$9 to \$15. a. с.
- b. The price increases from \$6 to \$9. d. The price decreases from \$12 to \$9.
- 43. **Refer to Figure 5-6**. If the price decreased from \$18 to \$6,
 - total revenue would increase by \$1,200, and demand is elastic between points A and C. a.
 - b. total revenue would increase by \$800, and demand is elastic between points A and C.
 - c. total revenue would decrease by \$1,200, and demand is inelastic between points A and C.
 - d. total revenue would decrease by \$800, and demand is inelastic between points A and C.
- 44. The principle of comparative advantage does not provide answers to certain questions. One of those questions is
 - a. Is it possible for specialization and trade to increase total output of traded goods?
 - b. Is it absolute advantage or comparative advantage that really matters?
 - Do specialization and trade benefit more than one party to a trade? с.
 - How are the gains from trade shared among the parties to a trade? d.
- The George Stigler quote, "...the degree of 'market failure' for the American economy is much smaller than the 45. 'political failure' arising from the imperfections of economic policies ..." illustrates the advantage of which type of public policy toward monopolies?
 - regulation a.

b.

- antitrust laws c. "do nothing"
- d.
- public ownership 46. An indifference curve illustrates
 - a. the prices of two goods.
 - b. a consumer's preferences.
- с. a consumer's budget.
- d. a firm's profits.

- 47. One assumption that distinguishes short-run cost analysis from long-run cost analysis for a profit-maximizing firm is that in the short run,
 - a. output is not variable.
 - b. there are no fixed costs.
 - c. the size of the factory is fixed.
 - d. the number of workers used to produce the firm's product is fixed.
- 48. Consider the labor market for computer programmers. During the late 1990s, the value of the marginal product of all computer programmers increased dramatically. Holding all else equal, what effect did this process have on the labor market for computer programmers?
 - a. The equilibrium wage increased and the equilibrium quantity of labor decreased.
 - b. The equilibrium wage increased and the equilibrium quantity of labor increased.
 - c. The equilibrium wage decreased and the equilibrium quantity of labor decreased.
 - d. The equilibrium wage decreased and the equilibrium quantity of labor increased.
- _____ 49. An equilibrium occurs in a game when
 - a. all independent strategies counterbalance all dominant strategies.
 - b. price equals marginal cost.
 - c. all players follow a strategy that they have no incentive to change.
 - d. quantity supplied equals quantity demanded.
 - 50. In which of the following games is it clearly the case that the cooperative outcome of the game is *good* for the two players and *bad* for society?
 - a. Two airlines dominate air travel between City A and City B, and each airline decides whether to charge a "high" airfare or a "low" airfare on flights between those two cities.
 - b. Two oil companies own adjacent oil fields over a common pool of oil, and each company decides whether to drill one well or two wells.
 - c. Two superpowers decide whether to build new weapons or to disarm.
 - d. In all of the above cases, the cooperative outcome of the game is good for the two players and bad for society

Test Version: B

Final exam - 24.01.2011, 1:30 - 3:00 p.m. Answer Section

1. ANS: absolute advantage

COMPLETION

2.	PTS: ANS:	1 economic models
3.	PTS: ANS:	1 marginal rate of substitution
4.	PTS: ANS:	1 positive economics
5.	PTS: ANS:	1 efficient scale
6.	PTS: ANS:	1 rental price
7.	PTS: ANS:	1 perfect substitutes
8.	PTS: ANS:	1 substitution effect
9.	PTS: ANS:	1 monopolistically competitive
10.	PTS: ANS:	1 substitutes
	PTS:	1

TRUE/FALSE

11.		T Industrial area					REF:	13-0
	TOP:	Industrial orga	inizatio	11	MSC:	Interpretive		
12.	ANS:	F	PTS:	1	DIF:	2	REF:	2-1
	TOP:	Production po	ssibiliti	es frontier Eco	onomic	growth	MSC:	Interpretive
13.	ANS:	F	PTS:	1	DIF:	2	REF:	3-3
	TOP:	Gains from tra	ide		MSC:	Interpretive		
14.	ANS:	Т	PTS:	1	DIF:	1	REF:	4-2
	TOP:	Law of deman	d		MSC:	Definitional		
15.	ANS:	F	PTS:	1	DIF:	2	REF:	7-3
	TOP:	Total surplus			MSC:	Applicative		
16.	ANS:	Т	PTS:	1	DIF:	2	REF:	5-1
	TOP:	Price elasticity	of den	nand	MSC:	Interpretive		

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17.	ANS:	F	PTS:	1	DIF:	2	REF:	21-4
	TOP:	Labor supply			MSC:	Interpretive		
18.	ANS:	F	PTS:	1	DIF:	1	REF:	21-2
	TOP:	Marginal rate	of subs	titution	MSC:	Definitional		
19.	ANS:	Т	PTS:	1	DIF:	2	REF:	4-2
	TOP:	Inferior goods			MSC:	Interpretive		
20.	ANS:	F	PTS:	1	DIF:	2	REF:	18-1
	TOP:	Diminishing r	nargina	l product	MSC:	Applicative		

MULTIPLE CHOICE

21.	ANS:	C Marginal prod		1		2 Analytical	REF:	13-2
22.	ANS:	Α	PTS:	1	DIF:	3	REF:	13-2
23.	ANS:	Diminishing n B Total-cost curv	PTS:	-	DIF:	Analytical 3 Interpretive	REF:	13-2
24.				1 Producer surplu	DIF:	2	REF: MSC [.]	7-3 Interpretive
25.	ANS:	A Diseconomies	PTS:	1	DIF:	2 Applicative	REF:	
26.	ANS:		PTS:		DIF:	2 Analytical	REF:	14-2
27.	ANS:	—	PTS:	1	DIF:		REF:	13-4
28.	ANS:	C Scientific met	PTS:		DIF:	1 Definitional	REF:	2-1
29.	ANS:	D	PTS:	1	DIF:	1	REF:	21-2
30.	ANS:			1		-	REF:	16-2
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40.	ANS:	D	PTS:	1	DIF:	3	REF:	14-2
	TOP:	Profit maximiz	zation		MSC:	Applicative		
41.	ANS:	D	PTS:	1	DIF:	2	REF:	5-1
	TOP:	Midpoint meth	nod Pi	rice elasticity o	f dema	nd	MSC:	Applicative
42.	ANS:	D	PTS:	1	DIF:	3	REF:	5-1
	TOP:	Total revenue	Price	elasticity of de	emand		MSC:	Applicative
43.	ANS:	А	PTS:	1	DIF:	2	REF:	5-1
	TOP:	Total revenue	Price	elasticity of de	emand		MSC:	Applicative
44.	ANS:	D	PTS:	1	DIF:	2	REF:	3-2
	TOP:	Comparative a	dvanta	ge	MSC:	Interpretive		
45.	ANS:	D	PTS:	1	DIF:	2	REF:	15-5
	TOP:	Do nothing	MSC:	Interpretive				
46.	ANS:	В	PTS:	1	DIF:	1	REF:	21-2
	TOP:	Indifference co	urves		MSC:	Definitional		
47.	ANS:	С	PTS:	1	DIF:	1	REF:	13-4
	TOP:	Short run	MSC:	Interpretive				
48.	ANS:	В	PTS:	1	DIF:	2	REF:	18-1 18-3
	TOP:	Labor-market	equilib	rium	MSC:	Applicative		
49.	ANS:	С	PTS:	1	DIF:	2	REF:	17-2
	TOP:	Nash equilibri	um		MSC:	Interpretive		
50.	ANS:	А	PTS:	1	DIF:	3	REF:	17-2
	TOP:	Prisoners' dile	mma		MSC:	Interpretive		