Review 3

d. \$130

Chapters 10, 11, 12, 13, 14 are included in Midterm 3. There will be 40-45 questions. Most of the questions will be definitional, make sure you read the text carefully.

Table 14-2

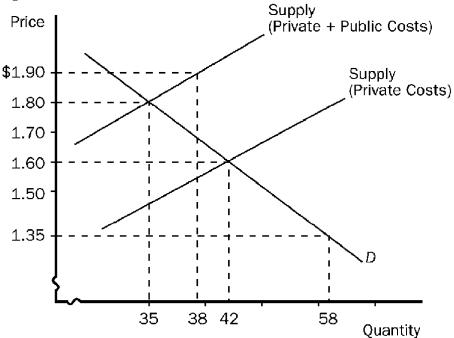
The following table presents cost and revenue information for Soper's Port Vineyard.

	COSTS		REVENUES				
Quantity Produced	Total Cost	Marginal Cost	Quantity Demanded	Price	Total Revenue	Marginal Revenue	
0	100		0	120			
1	150		1	120			
2	202		2	120			
3	257		3	120			
4	317		4	120			
5	385		5	120			
6	465		6	120			
7	562		7	120			
8	682		8	120			

1.	Refer to Table 14-2. Consumers are willing to pay \$120 per unit of port wine. What is the total revenue from selling 7 units? a. \$120 b. \$700 c. \$820 d. \$840
2.	Refer to Table 14-2. Consumers are willing to pay \$120 per unit of port wine. What is the total revenue from selling 4 units? a. \$120 b. \$217 c. \$263 d. \$480
 3.	Refer to Table 14-2. Consumers are willing to pay \$120 per unit of port wine. What is the marginal revenue from selling the 3rd unit? a. \$50 b. \$80 c. \$120 d. \$140
4.	Refer to Table 14-2. Consumers are willing to pay \$120 per unit of port wine. What is the average revenue when 4 units are sold? a. \$50 b. \$120 c. \$125

- 5. **Refer to Table 14-2**. Consumers are willing to pay \$120 per unit of port wine. What is the marginal cost of the 1st unit?
 - a. \$50
 - b. \$75
 - c. \$80
 - d. \$150
- 6. **Refer to Table 14-2**. Consumers are willing to pay \$120 per unit of port wine. What is the marginal cost of the 8th unit?
 - a. \$0
 - b. \$100
 - c. \$120
 - d. \$140
- 7. **Refer to Table 14-2**. Consumers are willing to pay \$120 per unit of port wine. What is Soper's Port Vineyard's economic profit at their profit maximizing point?
 - a. \$78
 - b. \$243
 - c. \$278
 - d. \$375

Figure 10-1



- 8. **Refer to Figure 10-1**. This graph represents the tobacco industry. The industry creates
 - a. positive externalities.
 - b. negative externalities.
 - c. no externalities.
 - d. no equilibrium in the market.

Name: _			ID: A
	equilibrium price a. \$1.90 and 33 b. \$1.80 and 33 c. \$1.60 and 42 d. \$1.35 and 58 0. Refer to Figure a. \$1.90 and 33 b. \$1.80 and 33 c. \$1.60 and 42	e and quantity are 8 units, respectively. 5 units, respectively. 2 units, respectively. 8 units, respectively.	the tobacco industry. Without any government intervention, the the tobacco industry. The socially optimal price and quantity are
	<i>Table 12-5</i>		
	Income	Tax rate	
	\$0 to \$40,000	20%	
	Over \$40,000	50%	
1	 a. 20% b. 30% c. 40% d. 50% 2. Refer to Table 1 a. 20% b. 30% c. 40% d. 50% 	12-5. What is the marginal ta	x rate for a person who makes \$35,000? x rate for a person who makes \$60,000?
1	a. 20%b. 30%c. 40%d. 50%		a rate for a person who makes \$60,000?
1	production for ea	•	ut but sold only 275 of the units it produced. The average cost of was \$100. Each of the 275 units sold was sold for a price of \$95.

Scenario 13-1

Joe wants to start his own business. The business he wants to start will require that he purchase a factory that costs \$400,000. Joe currently has \$500,000 in the bank earning 3 percent interest per year.

- 15. **Refer to Scenario 13-1**. Suppose Joe purchases the factory using \$200,000 of his own money and \$200,000 borrowed from a bank at an interest rate of 6 percent. What is Joe's annual opportunity cost of purchasing the factory?
 - a. \$3,000
 - b. \$6,000
 - c. \$15,000
 - d. \$18,000
- 16. Suppose a certain firm is able to produce 165 units of output per day when 15 workers are hired. The firm is able to produce 176 units of output per day when 16 workers are hired (holding other inputs fixed). Then the marginal product of the 16th worker is
 - a. 10 units of output.
 - b. 11 units of output.
 - c. 16 units of output.
 - d. 176 units of output.

Table 13-2

Number of Workers	Output
0	0
1	50
2	110
3	180
4	260
5	330

17.	Refer to Table 13-2.	What is the mar	ginal produ	ct of the fo	ourth worker?
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- a. 65
- b. 70
- c. 75
- d. 80

18. **Refer to Table 13-2**. At which number of workers does diminishing marginal product begin?

- a. 2
- b. 3
- c. 4
- d. 5

Table 13-3

Number of Workers	Number of Machines	Output (corks produced per hour)	Marginal Product of Labor	Cost of Workers	Cost of Machines	Total Cost
1	2	5				
2	2	10				
3	2	20				
4	2	35				
5	2	55				
6	2	70				
7	2	80				

- 19. **Refer to Table 13-3**. Each worker at Gallo's cork factory costs \$12 per hour. The cost of each machine is \$20 per day regardless of the number of corks produced. If Gallo's produces at a rate of 70 corks per hour and operates 8 hours per day, what is Gallo's total labor cost per day?
 - a. \$72
 - b. \$96
 - c. \$480
 - d. \$576

Table 13-6

Adrian's Premium Chocolates produces boxes of chocolates for its mail order catalogue business. She rents a small room for \$150 a week in the downtown business district that serves as her factory. She can hire workers for \$275 a week. There are no implicit costs.

Number of Workers	Boxes of Chocolates Produced per Week	Marginal Product of Labor	Cost of Factory	Cost of Workers	Total Cost of Inputs
0	0				
1		330	150	275	425
2	630				
3		150		825	975
4	890				
5	950	60		1,375	
6		10			1,800

- 20. **Refer to Table 13-6**. What is the marginal product of the second worker?
 - a. 110
 - b. 200
 - c. 260
 - d. 300

- 21. **Refer to Table 13-6**. What is the total cost associated with making 890 boxes of premium chocolates per week?
 - a. \$1,250
 - b. \$1,325
 - c. \$1,400
 - d. \$1,575
- 22. **Refer to Table 13-6**. During the week of July 4th, Adrian doesn't box any chocolates. What are her costs during the week?
 - a. \$0
 - b. \$150
 - c. \$275
 - d. \$425
- __ 23. **Refer to Table 13-6**. One week, Adrian earns a profit of \$125. If her revenue for the week is \$1100, how many boxes of chocolate did she produce?
 - a. 140
 - b. 330
 - c. 780
 - d. 950

Table 13-9

Output	Total Cost
0	40
10	60
20	90
30	130
40	180
50	240

- 24. **Refer to Table 13-9**. What is the total fixed cost for this firm?
 - a. \$20
 - b. \$30
 - c. \$40
 - d. \$50
 - 25. **Refer to Table 13-9**. What is average fixed cost when output is 40 units?
 - a. \$1.00
 - b. \$3.32
 - c. \$5.00
 - d. \$8.00
 - 26. **Refer to Table 13-9**. What is average variable cost when output is 50 units?
 - a. \$3.60
 - b. \$4.00
 - c. \$4.40
 - d. \$4.80

Name:	ID: A
	,

- 27. **Refer to Table 13-9**. What is variable cost when output equals 30 units?
 - a. \$4.00
 - b. \$4.33
 - c. \$40.00
 - d. \$90.00

Table 13-10

Consider the following table of long-run total cost for four different firms

Quantity	1	2	3	4	5	6	7
Firm 1	\$210	\$340	\$490	\$660	\$850	\$1,060	\$1,290
Firm 2	\$180	\$350	\$510	\$660	\$800	\$930	\$1,050
Firm 3	\$120	\$250	\$390	\$540	\$700	\$870	\$1,050
Firm 4	\$150	\$300	\$450	\$600	\$750	\$900	\$1,050

- 28. **Refer to Table 13-10**. Which firm has constant returns to scale over the entire range of output?
 - a. Firm 1
 - b. Firm 2
 - c. Firm 3
 - d. Firm 4

Review 3 Answer Section

MULTIPLE CHOICE

1.	ANS: D MSC: Applicative	DIF:	2	REF:	14-1	TOP:	Total revenue
2.	ANS: D MSC: Applicative	DIF:	2	REF:	14-1	TOP:	Total revenue
3.	ANS: C MSC: Applicative	DIF:	2	REF:	14-1	TOP:	Marginal revenue
4.	ANS: B MSC: Applicative	DIF:	2	REF:	14-1	TOP:	Average revenue
5.	ANS: A MSC: Applicative	DIF:	2	REF:	14-2	TOP:	Marginal cost
6.	ANS: C MSC: Applicative	DIF:	2	REF:	14-2	TOP:	Marginal cost
7.	ANS: C MSC: Applicative	DIF:	2	REF:	14-2	TOP:	Economic profit
8.	ANS: B MSC: Applicative	DIF:	2	REF:	10-1	TOP:	Externalities
9.	ANS: C MSC: Applicative	DIF:	2	REF:	10-1	TOP:	Externalities
10.	ANS: B MSC: Applicative	DIF:	2	REF:	10-1	TOP:	Externalities
11.	ANS: A MSC: Analytical	DIF:	2	REF:	12-2	TOP:	Marginal tax rates
12.	ANS: D MSC: Analytical	DIF:	2	REF:	12-2	TOP:	Marginal tax rates
13.	ANS: B MSC: Analytical	DIF:	3	REF:	12-2	TOP:	Average tax rates
14.	ANS: A MSC: Applicative	DIF:	2	REF:	13-1	TOP:	Profit
15.	ANS: D MSC: Applicative	DIF:	2	REF:	13-1	TOP:	Opportunity cost
16.	ANS: B MSC: Applicative	DIF:	1	REF:	13-2	TOP:	Marginal product of labor
17.	ANS: D MSC: Analytical	DIF:	2	REF:	13-2	TOP:	Marginal product
18.	ANS: D MSC: Analytical	DIF:	1	REF:	13-2	TOP:	Marginal product
19.	ANS: D MSC: Applicative	DIF:	2	REF:	13-2	TOP:	Variable costs
20.	ANS: D MSC: Applicative	DIF:	2	REF:	13-3	TOP:	Marginal product of labor

21.	ANS: A MSC: Applicative	DIF:	2	REF: 13-3	TOP:	Total cost
22.	* *	DIF:	2	REF: 13-3	TOP:	Fixed costs
23.	ANS: C MSC: Applicative	DIF:	2	REF: 13-3	TOP:	Accounting profit
24.		DIF:	2	REF: 13-4	TOP:	Fixed costs
25.	ANS: A MSC: Analytical	DIF:	3	REF: 13-4	TOP:	Average fixed cost
26.	ANS: B MSC: Analytical	DIF:	3	REF: 13-4	TOP:	Average variable cost
27.	ANS: D MSC: Analytical	DIF:	2	REF: 13-4	TOP:	Variable costs
28.		DIF:	2	REF: 13-4	TOP:	Constant returns to scale