7/6/2003

ECONOMICS 211

FINAL EXAL

TIME DURATION: 150 MINUTES

INSTRUCTOR: RAMADAN

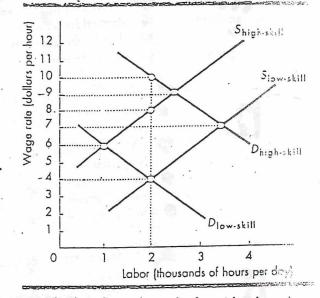


X

NAME:---Key----STUDENT#:---

100 QUESTIONS, CIRCLE THE RIGHT ANSWER

- Why are college graduates get paid more, on average, than high school graduates?
- The supply of college graduates is less than the supply of high school graduates.
- College graduates have higher marginal products than do high school graduates.
- The demand for college graduates exceeds the demand for high school graduates.
- All of the above answers are correct.
- A market structure in which there is only one buyer is a(n)
 - monopoly.
- monopsony.
- oligopoly.
- competitive market.
- If your labor supply increases when you get a raise, which of the following is true?
- Your substitution effect is greater than your income effect.
- Your substitution effect is less than your incomeffect.
- Your substitution effect equals your income effect
- None of the above answers are correct.
- A backward-bending supply curve of labor exists whenever
- the substitution effect of a wage increase is larger than the income effect of that wage increase.
- the substitution effect of a wage increase is smaller than the income effect of that wage increase.
- the substitution effect and the income effect of a wage increase work in the same direction.
- the substitution effect and the income effect of a wage increase work in opposite directions.
 - Average fixed cost is equal to
 total cost divided by quantity.



- The above figure shows the demand and supply curves for high-skilled and low-skilled labor. The wage differential between high-skilled and low-skilled labor is
- \$4.00.
- \$5.00.
- \$6.00.
- \$7.00.
- The above figure shows the demand and supply curves for high-skilled and low-skilled labor. The wage rate
- of high-skilled labor is \$7.00 and of low-skilled labor is \$6.00.
- of high-skilled labor is \$9.00 and of low-skilled labor is \$7.00.
- of high-skilled labor is \$6.00 and of low-skilled labor is \$4.00.
- of high-skilled labor is \$9.00 and of low-skilled labor is \$4.00.



When a group is discriminated against in wages fall but its employment does not employment and its wages decrease.

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- If there is a change in legislation that makes it easier for hospitals to substitute other health care professionals for nurses, then the demand for nurses will become
- less elastic
- more elastic
- this change will not affect the elasticity of demand for nurses
- first more elastic, then less elastic
- All else equal, if violins are produced using a production process in which capital cannot be readily substituted for labor, then the
- demand for labor will be highly elastic.
- demand for labor will be somewhat elastic.
- demand for labor will be unit elastic.
- demand for labor will be inclusive.
- When the price of the product it produces rises, the firm's
- demand for labor curve shifts rightward.

 demand for labor curve shifts leftward.
- demand for labor curve remains unchanged.
- output decreases.
- A firm's demand for labor curve
- is the same as its marginal revenue product of labor curve.
- shows how much labor the firm hires at different wage rates.
- shifts rightward when the price of the firm's output increases.
- ALL of the above answers are correct.
 - The demand for labor depends on:
 - I. Technology
 - II. Prices of resources other than labor
- III. Price of the product.
 - 🕝 I and II
 - II and III
- I and III
- a · I, II and III
- If the current wage (W) is less than the marginal revenue product (MRP), then the firm should
- hire less labor, which will increase the MRP.
- hire more labor, which will decrease the MRP.
 hire no more or less labor, because profits are
- bire more labor, because hiring more labor will increase the Wand MRP until they are equal.

greatest when W < MRP.

- Which of the following indicates that a firm is maximizing its profit?
 - I. Marginal revenue equals marginal cost.
 - II. Marginal revenue product equals the wage.
 -) I only
- I only.

 Both I and II.
 - Neither I nor II

- Which of the following is <u>NOT</u> 2 profit manifest competition under perfect competition
- Marginal revenue = marginal cost.
 - Marginal revenue product = wage rave.
- Price = marginal cost.
- None of the above because all the condition profit maximizing.

	and the second		-
Quantity		Marginal	Tora
of labor.	Out-	revenue product	70775
(workers)	put	(dollars)	(doll a
	(units)		
0	0	0	0
1	10	- 100	10
2	18	· 80	180
3	24	60	-240
4	28	. 40	280
5	30	20	300
	of labor (workers)	of labor (workers) put (units) 0 0 0 1 10 2 18 3 24 4 28	of labor (workers)

- Based on the production and revenue data a above table, what is the marginal product of 4th worker?
 - **3** 28.
 - 6.
 - **1**. 4.
- **2**) 2.
- Based on the production and revenue data is above table, what is the price of the product
 - **S** 5100.
 - **9** S10.
 - **S**1.
 - More information is needed to determine a price of the product.
- Based on the production and revenue data in above table, if the wage rate is \$20 per worker how many workers will be hired?
 - 5.
 - 4.
 - 3.
 - **9**) 2
 - A firm should hire more workers as long 25
 - marginal revenue exceeds the wage.
 - marginal revenue is less than the wage.
 - marginal revenue product exceeds the wage.
- decides to increase its labor force from 4 workers to five, and output increases from 15 to 17 works the marginal revenue product of the 5th unit of labor is
 - \$680.
- \$340.
- \$80.
- \$40.

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Labor	Output
(workers)	(haircuts per day)
0	. 0
1	24
2	36
3	44
4	48
5	50

- The above table has output information for Joe's Barber Shop. Joe charges \$6 per haircut. The firm's marginal revenue product of labor for the third worker is equal to:
- \$264.
- \$48.
- **S8.**
- (a) S6.
- The above table has output information for Joe's Barber Shop. Joe charges S6 per haircut. If the wage rate is S24 per worker, what quantity of labor will maximize profits?
 - 🗐 : 1 worker.
 - 2 workers.
- 4 workers.
-) 5 workers.
- The above table has output information for Joe's Barber Shop. Joe charges S6 per haircut. If the wage rate falls from \$24 per worker to \$12 per worker, what happens to the quantity of labor hired?
- it will increase and the new number of workers hired is ?
- it will decrease and the new number of workers hired is 2.
- it will increase and the new number of workers nired is 5.
- it will increase and the new number of workers hired is 3.

	1.		Firm A			
			Mon	opoly.	Co	mpeiiive.
		inglan (P	rice		price ·
-		Monopoly	A:	\$5	A:	\$8
١	Firm B	price	B:	\$5	B:	-\$1
		Competitive	A:	-\$1	A:	\$0
1		price	В:	\$8	B:	\$0

- The above payoff matrix shows the economic profits (in millions of dollars) of two firms in a duopoly that have agreed to a cartel agreement to restrict their output and set their prices equal to the monopoly price. Assuming the game is played once, the equilibrium outcome is where
- both choose the monopoly price.
- both choose the competitive price.
- firm A chooses the monopoly price and firm B chooses the competitive price.
- firm B chooses the monopoly price and firm A chooses the competitive price.

As the quantity of labor increases, marginal revenue product for a perfectly competitive firm

decreases because the firm must lower race to

sell a larger quantity.

decreases because the marginal product of labo

decreases because marginal revenue decreases.

The demand for productive resourceds driven by the demand for goods and services produce: that resource. This phenomenon is referred.

elastic demand.

inverse demand.

derived demand.

The marginal revenue product of labor is defi-

the change in total revenue obtained from producing one more unit of output.

the change in output from hiring one more

the change in profit from hiring one more worker.

the change in total revenue from hiring one more worker.

A prisoners' dilemma-type game
yields a dominant strategy non-cooperative
equilibrium in a single play of the game.
may yield a cooperative equilibrium in a repeared game if players communicate
may yield a cooperative equilibrium in a repeared game if players fear each other
All of the above answers are correct.

The ABC Nail Company has entered into a soll sive agreement with the other firm in the industry the DC Nail Company. What occurs in the nail industry if ABC decides to cheat on the agreement?

ABC lowers the price of its nails.

The total industry output increases.

The total profits in the nail industry will ec-

All of the above answers are correct.

If both firms in a duopoly cheat on a coll with agreement, the

prices will fall and both firms are before.

prices will rise and both firms are worse off.

prices will fall and both firms are worse off.

prices will rise and both firms are better off.

In the prisoners' dilemma,
the dominant strategy is to confess
the dominant strategy is to deny.
the dominant strategy depends on how to player reacts.

there is no dominant strategy.

		American		
5 17 14219			Cheat	Comply
/w.amal-aub.org `	Cheat	A:	50	A: -S2,000
National		N:	\$0	N: \$4,000
	Comply	A:	\$4,000	A: \$3,000
	each	N:	-\$2,000	N: S3,000

There are two can companies, American and National which have entered into a collusive agree-The payoff matrix of economic profits is above. If both firms cheat on the collusive agreement, what amount of economic profit is earned by American?

\$0 \$3,000

\$4,000

-\$2,000

There are two can companies, American and National which have entered into a collusive agreement. The payoff matrix of economic profits is above. If National is able to cheat on the ment but American complies with the agreement, what amount of economic profit will be earned by National?

\$2,000 \$3,000

\$4,000

\$6,000

Oligopolies are always characterized as producing identical goods. producing differentiated goods. colluding whenever possible.

having firms whose prices and quantities depend on the prices and quantities set by the other 1 competing firms.

In the long-run equilibrium, firms in a monopolistically competitive industry produce at an output level where

P > ATC but MR = MC.

P > ATC and MR > MC.

P = ATC and MR = MC.

P = ATC but MR > MC.

When new firms enter a monopolistically competitive industry,

each existing firm's demand curve shifts right-

each existing firm's demand curve shifts left-

each existing firm's marginal cost curve shifts

each existing firm's marginal cost curve shifts leftward.

Product differentiation exists within an industry if there are no substitutes for a product.

In a prisoners' dilemma game, which of lowing strategies gives the best outcome prisoners?

Both deny (collusion).

Both confess (not collude).

One confesses while the other denies.

None of the above.

Economic profit in monopolistic com definitely leads to

a leftward shift in each firm's demand new firms enter the market.

a rightward shift in each firm's

___ as new firms enter the market. an upward shift in each firm's cost ou firms enter the market.

All of the above answers are correct.

A firm is said to have excess capacity v it produces a level of output such the

greater than marginal cost. it produces a level of output such tha revenue is greater than marginal cost

it produces a level of output smaller

which minimizes average total cost. it produces a level of output larger th which minimizes average total cost.

Which of the following is TRUE abou maximizing monopolistically competit its long-run equilibrium?

P = MC. P = MR

ATC = MC.

P = ATC.

When comparing perfect competition nopolistic competition, we find that

monopolistically competitive firms pr identical products like perfectly comp

monopolistically competitive firms fa to entry, unlike perfectly competitive advertising plays a large role in mono competition, unlike in perfect compemonopolistically competitive firms are ers like perfectly competitive firms.

Which of the following is not true? Both monopolies and monopolistical petitive firms can determine what pri

In the long run, both monopolies are

listically competitive firms earn no co

Both monopolies and monopolistical petitive firms produce so that MR equ In the short run, both monopolies and polistically competitive firms can care

nomic profit.

there are close but not perfect substitutes for a

Product differentiation

www.ama@ub.62guses the monopolistic competitor to face a downward-sloping demand curve.

means that the monopolistic competitor's product is a close but not perfect substitute for the products of its competitors.

enables the monopolistic competitor to compete in product quality.

All of the above answers are correct.

Price discrimination by a monopolist is less effective if

the good can be resold.

the good has no substitutes.

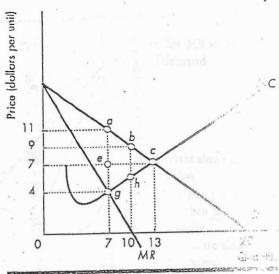
the monopolist can identify buyers by willingness-to-pay.

the good cannot be resold.

No.	40.00		
Price (dollars)	Quantity demanded	Marginal revenue (dollars)	Total cost (dollars)
30	0	0	25
2-	1	27	28
24	2	21	33
21	3	15	40
18	4 .	9	49
15	5	3	60
12	6	-3	73
9 .	. 7	-9	88

- Using the data in the above table for a single-price monopolist, how many units of output will be produced?
 - 3 units.
 - 4 units.
 - 5 units.
 - 6 units.
- Using the data in the above table for a single-price monopolist, how much total economic profit does the monopolist earn?
 - 59.
 - S23.
- S13.
- \$72.
- If the single-price monopolist whose cost and demand data are in the above table were forced to produce 5 units of output, what would be the monopolist's economic profit?

 - \$3.
 - 575.
 - \$15.
 - To maximize profit, : a monopolist produces on the __ portion of its demand where _
- classic P = MC
 - classic MR = MC
 - inelastic P = MC
 - inelastic MR = MC

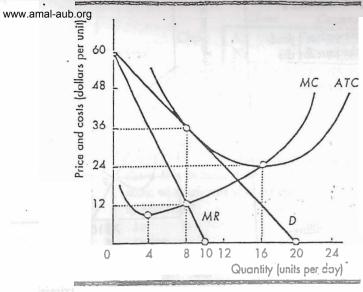


- Consider the monopolist depicted in the fig. above. The profit maximizing level of a apu single-price monopolist is

 - 11.
 - 13.
- 27
- Consider the monopolist depicted in the fig above. The price a single-price monopolist v charge for the profit-maximizing level of our
- \$4.
 - 57.
- 59.
- S11.
- if the above figure illustrated a perfectly comtive industry, the equilibrium industry entpuwould be equal to
 - 7.
 - 11.
 - 13.
- If the above figure illustrated a perfectly contive industry, the equilibrium industry price would be equal to
 - \$4.
 - \$7.
 - - \$11.
 - In the above figure, if a single-price memory maximized its profit, the deadweight loss in market is equal to the area



- In the long-run, a single-price monopolity will not be able to continue to earn economic pre and will break even with a normal profit. be able to continue to earn economic profits: long as the market remains a monopoly.
 - end up being regulated by the government be cause it is making short-run economic profits



The above figure depicts a monopolistically competitive firm. What is the profit maximizing level of output the firm will produce?

4 units per dayδ units per day

10 units per day

16 units per day

The above figure depicts a monopolistically competitive firm. What price should the firm charge?

\$12.

S24

S \$36.

None of the above answers are correct.

The above figure depicts a monopolistically competitive firm. At the profit maximizing level of output,

nthe firm is making economic profit.

the firm incurs an economic loss.

the firm is making zero economic profit.

this firm would choose to shut down in the short run.

The above figure depicts a monopolistically competitive firm. At the profit maximizing level of output, excess capacity for the firm is equal to:

0 units per day.

4 units per day.

8 units per day.

16 units per day.

As a result of using the marginal cost pricing rule

to regulate a natural monopoly,
the natural monopoly will incur an economic

loss.

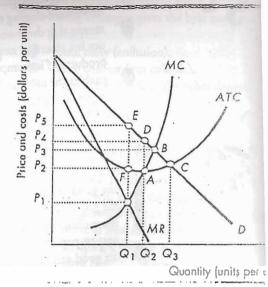
the natural monopoly earns a normal profit.

the monopolist produces an inefficient amount of product.

the monopolist is allowed to cover all its costs and earn a normal profit.

In the case of a perfectly price-discriminating monopoly, there is no

transfer of consumer surplus to the producer.



In the above figure, the monopolistically petitive firm produces

 Q_3 and sets the price at P_3 .

 Q_2 and sets the price at P_2 .

 Q_1 and sets the price at P_1 .

 Q_1 and sets the price at P_5 .

petitive firm, the marginal cost of the last uproduced is

equal to P_2 and is greater than marginal requal to P_3 and is greater than marginal re

equal to P_1 and is greater than marginal recent equal to P_1 and is equal to marginal reven

In the above figure of a monopolistically co

ADB

ABC

 $P_{\gamma}ADP_{\delta}$

D FFD

The above figure shows a monopolistically petitive firm. The figure

is only a short-run illustration, because to is earning an economic profit.

could be either a short-run or long-run illition because monopolistically competitive can earn an economic profit in the long-ruis only a long-run illustration because the

earning only a normal profit.

is neither a short- nor a long-run illustration

In the above figure, in the long run, this me polistically competitive firm will produce more output at a higher price,

no change in costs of production.

produce less output at a lower price, assured

no change in costs of produce the same quantity at the same price

Any of the shove are possible

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Quantity	Price	
(units)	(dollars per unit)	
1	8],
2	7	
3	6	
4	5	
5	. 4	
6	3	

- The table above gives the demand for a monopolist's output. Between which two quantities is marginal revenue equal to 0?
- 9 4 and 5
- 3 and 4
- 2 and 3
- 1 and 2
- The table above gives the demand for a monopolist's output. Between which two quantities is demand elastic?
- 6 and 5
- **3** 5 and 4
- 4 and 3
- 3 and 2
- The table above gives the demand for a monopolist's output. What is the total revenue in the when 3 units of output are produced?
 - \$21.
 - \$20.
 - S18.
 - **9)** \$6.
- The table above gives the demand for a monopolist's output. What is the marginal revenue when output is increased from 5 to 6 units?

 - \$4.
 - S3.
 - -52
- The table above gives the demand for a monopolist's output. What is the marginal revenue when output is increased from 2 to 3 units?
 - \$18.
 - \$4.
 - \$7.
 - \$6.
- If a monopolist was operating in a price range where many small revenue was negative it would be in the inelastic range of the demand for its product.

 it would be in the unit classic range of the demand for its product.

 it would be in the clastic range of the demand for its product.

 it would be maximizing revenue but not profits.

- A single-price monopolist will always produ where the elasticity of demand
- is greater than 1.
- is smaller then 1.
- equals 1.
- cquals infinity.
- A monopolist that operates along the wastiof its demand will find that
- total revenue increases when price derress total revenue decreases when price has been
- marginal revenue is negative.
- it is more profitable to operate along the ...
- For a single-price monopolist,
- MR = P always.
- MR < Palways.
- MR first increases and then decreases wir
- MR first decreases and then increases wit quantity sold.
- A monopolist can
- sell as much as he or she wants at the chos price because he or she is the only selles.
- increase price and quantity sold at the time.
- increase price only if he or she is willing decrease the quantity sold.
- is not restricted by the law of demand.
- A natural monopoly is defined as:
- a market in which competition and entry a suicted by the granting of a government life, an industry in which one firm can supply a entire market at a lower price than two or :
 - a market in which competition and entry as stricted by the granting of a patent.
- any market where one firm constitutes the e industry.
- If the government grants a firm a public fra to supply coal, a monopoly is created by
- a natural barrier to entry.
- a legal barrier to entry.price discrimination.
- All of the above answers are correct.
- Which of the following is <u>NOT</u> a decision fine must make in the short run?
 - Whether to enter or leave an include
- Whether to produce or shut down
 - None of the above answers are correct becat all are decisions firms must make in the sho.

g	Quantity	Total cost
1	(gloves per day)	(dollars)
	0	80
1	1	100
- 1	2	105
X	3	135
1	4	170
	5 1	210
X.	6	270
	7	350
	8	450

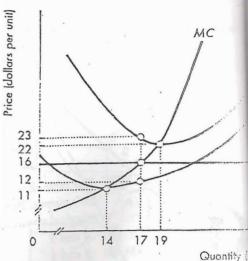
- The above table shows the per day total cost for Kiley's Baseball Glove Company. Each glove is priced at \$50 and Kiley's Baseball Glove Company is a perfectly competitive firm. Between which two output levels does Kiley's Baseball Glove Company earn an economic profit?
- 0 and 8
- 1 and 8
- 2 and 7
- 3 2nd 6



- In perfect competition,
 - the market demand for the good is perfectly elastic but the demand for the output of one firm is not perfectly elastic.
- the market demand for the good is not perfectly elastic but the demand for the output of one firm is perfectly elastic.
- both the market demand for the good and the demand for the output of one firm are perfectly elastic.
 - neither the market demand for the good nor the demand for the output of one firm is perfectly elastic.
 - Perfectly competitive firms have a total revenue curve that is
- upward sloping with increasing slope.
 downward sloping with constant slope.
 upward sloping with decreasing slope.
 - upward sloping with constant slope:
 - If demand for Farmer John's maple syrup is inelastic, then when Farmer John raises the price of maple syrup, his total revenue will
 - incresse.
 - decresse
- stay the same.

 probably change but
- probably change, but more information is needed to determine if the total revenue increases, decreases, or stays the same.
- Increasing opportunity cost is due to
- firms' needs to earn more and more profits.

 ever increasing taxes.
 - the fact that it is more difficult to use resources efficiently the more society produces.
 - the fact that resources are not equally suited for



- Consider the perfectly competitive firm is above figure. The profit maximizing level put for the firm is equal to
 - 0 units.
 - lá units.
- 17 units. N
- 19 units.
- Consider the perfectly competitive firm in above figure. At the profit maximizing leve output, the firm is earning
 - an economic loss equal to \$119. X
 - an economic loss equal to \$114.
- an economic loss equal to \$102.
 - a normal profit.
- Consider the perfectly competitive firm in a above figure. The shutdown point occurs at price of
- 9. S11. X
- S12.
 - \$16.
- S22.
- Consider the perfectly competitive firm in the above figure. What will the firm choose to the short-run and why?
- Shut down because the firm incurs an econ
- Stay in business because the firm is making economic profit.
- Stay in business because the firm's economic is less than fixed costs.
- Stay in business, but produce a different lev output, because the firm incurs an economic loss.
- Consider the perfectly competitive firm in the above figure. At what price will long-run equinium occur?
- S11:
- \$12.
- \$22. X
- \$23.
- If demand is inclastic, an increase in the paids
 decrease total revenue.
 - increase total revenue.

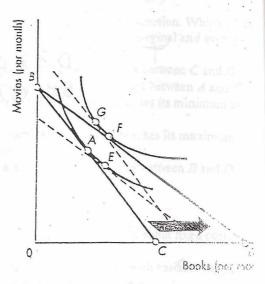
		Total	Total	Total
aub org	Output	fixed cost	variable cost	cost
(workers)	(bikes)	(dollars)	(dollars)	(dollars)
0	0	200	0	200
1	20	200	100	300
2	50	200	200	400
3	60	200	300	500
4	64	200	(10.0	600

The table above gives costs at Jan's Bike Shop. Unfortunately, Jan's record keeping has been spotty. Each worker is paid \$100 a day. Labor costs are the only variable costs of production. What is the total cost of producing 50 bikes?

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- S200
- 5300
- The table above gives costs at Jan's Bike Shop. Unfortunately, Jan's record keeping has been sporty. Each worker is paid \$100 a day. Labor costs are the only variable costs of production. What is the total fixed cost associated with producing 64 bikes?
 - \$200
 - 5300
 - 2400
 - \$500
- The table above gives costs at Jan's Bike Shop. Unfortunately, Jan's record keeping has been sporty. Each worker is paid \$100 a day. Labor costs are the only variable costs of production. What is the total variable cost associated with producing 60 bikes?
 - 5200
 - \$300
 - \$400 \$500
- Which of the following causes the production possibility frontier to have a bowed out, curvilinear shape?
- The assumption that resources are specialized. X
- The assumption that resources are not specialized.
- The scarcity of resources.
- The point that moving along the PPF technology is held constant
- The fact that opportunity costs increase while moving along a production possibility frontier suggests that a production possibility frontier for any economy will
- reach a minimum and then rapidly increase.
- be a straight line with a constant and positive
- be bowed out, away from the origin. be bowed in, toward the origin





Consider the change in the price of a 1 20% picted in the above figure. The original base line is BC. The new budget line is BD. As a of this price change, the substitution effect represented by a movement from

- point A to point E. X
 - point A to point G.
- point F to point G.
- point A to point F.

Consider the change in the price of a book of picted in the above figure. The original lendy line is BC. The new budget line is BD. At a a of this price change, the income effect can be resented by a movement from

- point E to point F.
- point G to point A.
- point G to point F.
- point A to point F.

. Price .	Quantity	Quantit
(dollars per ·	demanded	supplied
cellular phone)	(thousands)	(thousand
100	50	100
. 80	55	80
50	60	60
20	100	40

Using the data in the above table, the equilibria quantity and equilibrium price for a cellular tele phone is

- 50 thousand and \$100.
- 80 thousand and \$80.
- χ 60 thousand and \$50.
- 40 thousand and \$20.
- Using the data in the above table, at the price of \$80 a phone, a
- shortage of 25 thousand cellular telephone of
- surplus of 80 thousand cellular telephora a oc-
- surplus of 25 thousand cellular telephones oc-
- shortage of 55 thousand cellular telephones oc-