Chapter 7—Consumers, Producers, and the Efficiency of Markets

MULTIPLE CHOICE

- 1. Welfare economics is the study of
 - a. the well-being of less fortunate people.
 - b. welfare programs in the United States.
 - c. the effect of income redistribution on work effort.
 - d. how the allocation of resources affects economic well-being.

ANS: D DIF: Easy REF: 141

- 2. With respect to welfare economics, the equilibrium price of a product is considered to be the best price because it
 - a. maximizes total revenue to firms and total utility to buyers.
 - b. maximizes the total welfare of buyers and sellers.
 - c. minimizes costs and maximizes profits of sellers.
 - d. minimizes the level of welfare payments to those who no longer live below the poverty line.

ANS: B DIF: Average REF: 141

- 3. The equilibrium of supply and demand in a market
 - a. maximizes the profits of producers.
 - b. can only be achieved with government intervention.
 - c. produces both an efficient and equitable market outcome.
 - d. maximizes the total benefits received by buyers and sellers.

ANS: D DIF: Average REF: 145

- 4. Willingness to pay measures the
 - a. amount a buyer is willing to pay for a good minus the amount the buyer actually pays for it
 - b. amount a seller actually receives for a good minus the minimum amount the seller is willing to accept.
 - c. maximum amount a buyer is willing to pay minus the minimum amount a seller is willing to accept.
 - d. maximum amount that a buyer will pay for a good.

ANS: D DIF: Average REF: 141

- 5. Consumer surplus is
 - a. a buyer's willingness to pay minus the price.
 - b. a buyer's willingness to pay plus the price.
 - c. the price of the product minus the buyer's willingness to pay.
 - d. when the buyer's willingness to pay and the price of the product are equal.

ANS: A DIF: Average REF: 141

- 6. If a consumer is willing and able to pay \$15.00 for a particular good but the price of the good is \$17.00, then the
 - a. consumer would have consumer surplus of \$2.00.
 - b. consumer would increase his/her willingness and ability to pay by earning more.
 - c. consumer would not purchase the good and would not have any consumer surplus.

d. market must not be a perfectly competitive market.

ANS: C DIF: Average REF: 141

- 7. Suppose Lauren, Leslie and Lydia all purchase bulletin boards for their rooms for \$15 each. Lauren's willingness to pay was \$35, Leslie's willingness to pay was \$25, and Lydia's willingness to pay was \$30. Total consumer surplus for these three would be
 - a. \$15.
 - b. \$25.
 - c. \$35.
 - d. \$45.

ANS: D

DIF: Average

REF: 141

- 8. Suppose Lauren, Leslie and Lydia all purchase bulletin boards for their rooms for \$15 each. Lauren's willingness to pay was \$35, Leslie's willingness to pay was \$25, and Lydia's willingness to pay was \$30. Which of the three receives the most consumer surplus from her purchase?
 - a. Lauren
 - b. Leslie
 - c. Lydia
 - d. They each received the same consumer surplus since they each paid the same for the bulletin board.

ANS: A DIF: Average REF: 141

Table 7-1

BUYER	WILLINGNESS TO PAY
MIKE	\$50.00
SANDY	\$30.00
JONATHAN	\$20.00
HALEY	\$10.00

- 9. **Refer to Table 7-1**. If the table represents the willingness to pay of 4 buyers and the price of the product is \$15, then who would be willing to purchase the product?
 - a. Mike
 - b. Mike and Sandy
 - c. Mike, Sandy, and Jonathan
 - d. Mike, Sandy, Jonathan, and Haley

ANS: C DIF: Average REF: 141

- 10. Denise values a stainless steel dishwasher for her new house at \$500. The actual price of the dishwasher is \$650. Denise
 - a. buys the dishwasher and receives a consumer surplus of \$150.
 - b. buys the dishwasher and receives a consumer surplus of \$500.
 - c. does not buy the dishwasher because her willingness to pay is greater than the price.
 - d. does not buy the dishwasher because her willingness to pay is less than the price.

ANS: D DIF: Average REF: 141

- 11. Jeff decides that he would pay as much as \$3,000 for a new laptop computer. He buys the computer and realizes consumer surplus of \$700. How much did Jeff pay for his computer?
 - a. \$700
 - b. \$2,300
 - c. \$3,000

d. \$3,700

ANS: B DIF: Average REF: 142

- 12. If the price a consumer pays for a product is equal to a consumer's willingness to pay, then the consumer surplus of that purchase would be
 - a. zero.
 - b. negative and the consumer would not purchase the product.
 - c. positive and therefore the consumer would purchase the product.
 - d. There is not enough information given to answer this question.

ANS: A DIF: Average REF: 141

- 13. Suppose there is an early freeze in California that ruins the lemon crop. What happens to consumer surplus in the market for lemons?
 - a. It increases.
 - b. It decreases.
 - c. It is not affected by this change in market forces.
 - d. It increases very briefly then decreases.

ANS: B DIF: Challenging REF: 141

Table 7-2

BUYER	WILLINGNESS TO PAY
DAVID	\$8.50
LAURA	\$7.00
MEGAN	\$5.50
MALLORY	\$4.00
AUDREY	\$3.50

- 14. **Refer to Table 7-2**. If the market price is \$5.50, the consumer surplus in the market will be
 - a. \$3.00.
 - b. \$4.50.
 - c. \$15.50.
 - d. \$21.00.

ANS: B DIF: Average REF: 142

- 15. **Refer to Table 7-2**. If the price of Vanilla Coke is \$6.90, who will purchase the good?
 - a. All five would purchase Vanilla Coke, just in different amounts.
 - b. Megan, Mallory and Audrey
 - c. David, Laura and Megan
 - d. David and Laura

ANS: D DIF: Average REF: 142

- 16. **Refer to Table 7-2**. Which of the following is NOT true?
 - a. At a price of \$9.00, no buyer is willing to purchase Vanilla Coke.
 - b. The table shows the willingness to pay of the marginal buyer.
 - c. When the price is \$3.50, each person would receive consumer surplus.
 - d. At a price of \$4.00, total consumer surplus in the market will be \$9.00.

ANS: C DIF: Average REF: 142

17. If the cost of producing sofas decreases, consumer surplus will

- increase, then decrease.
- decrease.
- c. remain constant.
- d. increase.

ANS: D

DIF: Challenging REF: 142

- 18. When technology improves in the ice cream industry, consumer surplus will
 - increase.
 - b. decrease.
 - c. not change, since technology affects suppliers and not consumers.
 - d. increase, then decrease.

ANS: A

DIF: Challenging REF: 143

- 19. If the price of oak lumber increases, what happens to consumer surplus in the market for oak cabinets?
 - a. It increases.
 - b. It decreases.
 - c. It will not change consumer surplus, but it will change producer surplus.
 - d. It will increase, then decrease.

ANS: B

DIF: Challenging REF: 143

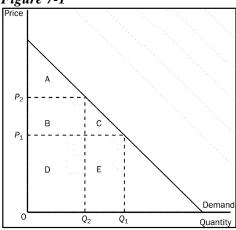
- 20. If the cost of producing chocolate decreases, consumer surplus
 - a. decreases.
 - b. increases.
 - c. remains constant.
 - d. decreases, then increases.

ANS: B

DIF: Challenging

REF: 143

Figure 7-1



- 21. **Refer to Figure 7-1**. When the price is P_1 , consumer surplus is
 - a. A
 - b. A + B
 - c. A + B + C
 - d. A + B + D

ANS: C

DIF: Average

REF: 143

22. **Refer to Figure 7-1**. At the price of P_2 , consumer surplus is

- a. A
- b. B
- c. A + B
- d. A + B + C

ANS: A

DIF: Average

REF: 143

- 23. **Refer to Figure 7-1**. When the price rises from P_1 to P_2 , consumer surplus
 - a. increases by an amount equal to A.
 - b. decreases by an amount equal to B + C.
 - c. increases by an amount equal to B + C.
 - d. decreases by an amount equal to C.

ANS: B

DIF: Challenging REF: 143

- 24. **Refer to Figure 7-1**. Area C represents
 - a. the decrease in consumer surplus that results from a downward-sloping demand curve.
 - b. consumer surplus to new consumers who enter the market when the price falls from P_2 to P_1 .
 - c. an increase in producer surplus when quantity sold increases from Q_2 to Q_1 .
 - d. a decrease in consumer surplus to each consumer in the market.

ANS: B

DIF: Challenging REF: 143

- 25. **Refer to Figure 7-1**. When the price rises from P_1 to P_2 , which would NOT be true?
 - The buyers who still buy the good are worse off because they now pay more.
 - Some buyers leave the market because they are not willing to buy the good at the higher
 - c. The total value of what is now purchased by buyers is actually higher.
 - d. Consumer surplus in the market falls.

ANS: C

DIF: Challenging REF: 143

- 26. Dallas buys strawberries, and would be willing to pay more than he now has to pay. Suppose that Dallas has a change in his tastes such that he values strawberries more than before. If the market price is the same as before, then
 - a. Dallas's consumer surplus would be unaffected.
 - b. Dallas's consumer surplus would increase.
 - c. Dallas's consumer surplus would decrease.
 - d. Dallas would be wise to buy fewer strawberries than before.

ANS: B

DIF: Challenging REF: 143

- 27. A supply curve can be used to measure producer surplus because it reflects
 - a. the actions of sellers.
 - b. quantity supplied.
 - c. sellers' costs.
 - d. the amount that will be purchased by consumers in the market.

ANS: C

DIF: Average

REF: 145

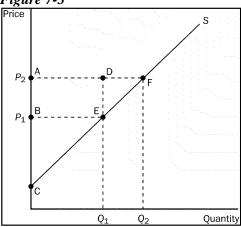
- 28. A seller would be willing to sell a product ONLY IF the price received is
 - a. less than the cost of production.
 - b. at least as great as the cost of production.
 - c. equal to the cost of production.
 - d. at least double the cost of production.

ANS: B

DIF: Average

REF: 145

Figure 7-3



- 29. **Refer to Figure 7-3**. Which area represents producer surplus at a price of P_1 ?
 - **BCE**
 - b. ACF
 - c. ABED
 - d. DEF
 - e. AFEB

ANS: A

DIF: Average

REF: 145

- 30. **Refer to Figure 7-3**. Which area represents producer surplus at a price of P_2 ?
 - a. BCE
 - b. ACF
 - c. ABED
 - d. DEF
 - e. AFEB

ANS: B

DIF: Average

REF: 145

- 31. **Refer to Figure 7-3**. Which area represents the increase in producer surplus when the price rises from P_1 to P_2 ?
 - a. BCE
 - b. ACF
 - c. ABED
 - d. DEF
 - e. AFEB

ANS: E

DIF: Average

REF: 145

- 32. **Refer to Figure 7-3**. When the price rises from P_1 to P_2 , which area represents the increase in producer surplus to existing producers?
 - a. **BCE**
 - b. ACF
 - c. ABED
 - d. DEF
 - e. AFEB

DIF: Average

REF: 145

33.	Refer to Figure 7-3 P_1 to P_2 due to new a. BCE b. ACF c. ABED d. DEF e. AFEB		_		crease in producer surplus when the price rises from?		
	ANS: D	DIF:	Average	REF:	145		
34.	nachos? a. It increases. b. It decreases. c. It is unaffected t	a. It increases.					
	ANS: A	DIF:	Average	REF:	145		
35.	The Surgeon General equilibrium market plants increases, and plants increases, and plants decreases, and plants decreases.	price of roducer roducer roducer	chocolate surplus increas surplus decreas surplus decrea	ses. ses.	late increases tooth decay. As a result, the		
	ANS: C	DIF:	Challenging	REF:	145		
36.	Suppose consumer i seed will a. decrease, and proc. decrease, and prod. increase, and prod. ANS: B	oducer s oducer s oducer s	surplus in the in urplus in the in surplus in the in urplus in the in	ndustry idustry v ndustry idustry v	will increase. will increase. will decrease.		
27							
31.	-	- Amou d by self - Costs - Amou	lers - Costs of sof sellers. nt paid by buye	sellers. ers + Ar	mount received by sellers - Costs of sellers.		
	ANS: B	DIF:	Challenging	REF:	145		
38.	Producer surplus me a. amount sellers r b. benefit to sellers c. amount sellers a d. total value of a g	eceive a s of parti re paid l	bove the minin cipating in a m less the amount	num the narket.			
	ANS: D	DIF:	Average	REF:	145		
	Table 7-3 SELLER	COST					
	•	•	l				

DALE	\$1,500
JILL	\$1,200
DENISE	\$1,000
CATHERINE	\$750
JACKSON	\$500

- 39. **Refer to Table 7-3**. If the market price is \$1,000, the producer surplus in the market would be
 - a. \$700.
 - b. \$750.
 - c. \$2,250.
 - d. \$3,700.

ANS: B

DIF: Average

REF: 145

- 40. **Refer to Table 7-3**. If the market price is \$1,000, the total cost in the market would be
 - a. \$3,700.
 - b. \$2,700.
 - c. \$2,250.
 - d. \$1,500.

ANS: C

DIF: Average

REF: 145

- 41. **Refer to Table 7-3**. If the price is \$1,000, Jackson's producer surplus would be
 - a. \$1,000.
 - b. \$750.
 - c. \$500.
 - d. \$250.

ANS: C

DIF: Average

REF: 145

- 42. **Refer to Table 7-3**. If the price is \$1,100, who would be willing to supply the product?
 - a. Dale and Jill
 - b. Dale, Jill and Denise
 - c. Denise, Catherine and Jackson
 - d. Catherine and Jackson

ANS: C

DIF: Average

REF: 146

- 43. At Nick's Bakery, the cost to make his homemade chocolate cake is \$3 per cake. He sells three and receives a total of \$21 worth of producer surplus. Nick must be selling his cakes for
 - a. \$2 each.
 - b. \$7 each.
 - c. \$8 each.
 - d. \$10 each.

ANS: D

DIF: Challenging

REF: 146

- 44. Marylyn and Rebecca sell lemonade on the corner. Each glass costs them \$0.05 to make. At the end of the day, they have sold 50 glasses and received a total producer surplus of \$12.50. That would mean that Marylyn and Rebecca sold each glass for
 - a. \$0.15.
 - b. \$0.20.
 - c. \$0.25.
 - d. \$0.30.

ANS: D DIF: Challenging REF: 146

Table 7-4

PRICE	QUANTITY DEMANDED	QUANTITY SUPPLIED
\$12.00	0	12
\$10.00	4	10
\$ 8.00	8	8
\$ 6.00	12	6
\$ 4.00	16	4
\$ 2.00	20	2

- 45. **Refer to Table 7-4**. The equilibrium or market-clearing price is
 - a. \$10.00.
 - b. \$8.00.
 - c. \$6.00.
 - d. \$4.00.

ANS: B DIF: Average REF: 150

- 46. **Refer to Table 7-4**. At a price of \$4.00, total surplus would be
 - a. more than it would be at the equilibrium price.
 - b. less than it would be at the equilibrium price.
 - c. the same as it would be at the equilibrium price.
 - d. There is insufficient information to say.

ANS: B DIF: Average REF: 150

- 47. **Refer to Table 7-4**. At the equilibrium price, consumer surplus would be
 - a. \$4.
 - b. \$8.
 - c. \$12.
 - d. \$16.

ANS: D DIF: Challenging REF: 150

- 48. **Refer to Table 7-4**. At the equilibrium price, producer surplus would be
 - a. \$20.
 - b. \$24.
 - c. \$28.
 - d. \$32.

ANS: D DIF: Challenging REF: 150

- 49. **Refer to Table 7-4**. At the equilibrium price, total surplus would be
 - a. \$16.
 - b. \$24.
 - c. \$32.
 - d. \$48.

ANS: D DIF: Challenging REF: 150

- 50. Which of the following is NOT correct?
 - a. consumer surplus = value to buyers amount paid by buyers
 - b. producer surplus = amount received by sellers cost of sellers

c. total surplus = value to buyers - amount paid by buyers + amount received by sellers - costs of sellers

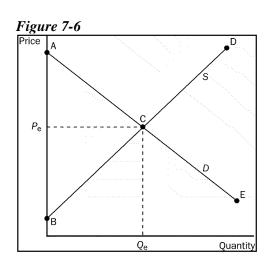
d. total surplus = value to sellers - costs of sellers

ANS: D DIF: Challenging REF: 150

51. Total surplus in a market is

- a. the total costs to sellers of providing the goods less the total value to buyers of the goods.
- b. the total value to buyers of the goods less the costs to sellers of providing those goods.
- c. less than consumer surplus plus producer surplus.
- d. greater than consumer surplus plus producer surplus.

ANS: B DIF: Average REF: 150



- 52. **Refer to Figure 7-6**. Buyers who value this good more than price are represented by segment
 - a. AC.
 - b. CE.
 - c. BC.
 - d. CD.

ANS: A DIF: Average REF: 150

- 53. **Refer to Figure 7-6**. Buyers who value this good less than price are represented by segment
 - a. AC.
 - b. CE.
 - c. BC.
 - d. CD.

ANS: B DIF: Average REF: 150

- 54. Refer to Figure 7-6. Sellers whose costs are less than price are represented by segment
 - a. AC.
 - b. CE.
 - c. BC.
 - d. CD.

ANS: C DIF: Average REF: 150

- 55. **Refer to Figure 7-6**. Sellers whose costs are greater than price are represented by segment
 - a. AC.

- b. CE.
- c. BC.
- d. CD.

ANS: D DIF: Average REF: 150

- 56. **Refer to Figure 7-6**. If price were higher than P_e ,
 - a. total surplus would fall.
 - b. consumer surplus would increase.
 - c. total surplus would rise, since producer surplus would increase.
 - d. consumer surplus would be greater than producer surplus.

ANS: A DIF: Average REF: 150

- 57. **Refer to Figure 7-7.** If this market were currently at a quantity of 40, we would know that
 - a. cost to sellers is equal to the value to buyers.
 - b. the value to buyers is greater than the cost to sellers.
 - c. the cost to sellers is greater than the value to buyers.
 - d. producer surplus would be greater than consumer surplus.

ANS: B DIF: Challenging REF: 150

- 58. An allocation of resources is said to be inefficient if
 - a. a good is not being produced by the sellers with the lowest cost.
 - b. producer surplus is not at a minimum.
 - c. consumer surplus is not at a maximum.
 - d. All of the above are correct.

ANS: A DIF: Easy REF: 150

- 59. When a market is in equilibrium, which of the following would not be correct?
 - a. The price determines which buyers and sellers participate in the market.
 - b. Those buyers who value the good more than the price choose to buy the good.
 - c. Those sellers whose costs are less than the price choose to produce and sell the good.
 - d. Consumer surplus will be equal to producer surplus.

ANS: D DIF: Average REF: 150

- 60. Moving production from a high-cost producer to a low-cost producer will
 - a. lower total surplus.
 - b. raise total surplus.
 - c. lower producer surplus.
 - d. raise producer surplus but lower consumer surplus.

ANS: B DIF: Average REF: 150

- 61. Suppose that the equilibrium price in the market for widgets is \$5. If a law reduced the maximum legal price for widgets to \$4,
 - a. consumer surplus would necessarily increase even if the lower price resulted in a shortage of widgets.
 - b. consumer surplus would necessarily decrease because the lower price would create a shortage of widgets.
 - c. consumer surplus might increase or decrease.
 - d. consumer surplus would be unaffected.

ANS: C DIF: Challenging REF: 155

- 62. Suppose that the equilibrium price in the market for widgets is \$5. If a law increased the minimum legal price for widgets to \$6, producer surplus
 - a. would necessarily increase even if the higher price resulted in a surplus of widgets.
 - b. would necessarily decrease because the higher price would create a surplus of widgets.
 - c. might increase or decrease.
 - d. would be unaffected.

ANS: C DIF: Challenging REF: 155

- 63. Suppose that the equilibrium price in the market for widgets is \$5. If a law reduced the maximum legal price for widgets to \$4,
 - a. any possible increase in consumer surplus would be larger than the loss of producer surplus.
 - b. any possible increase in consumer surplus would be smaller than the loss of producer surplus.
 - c. the resulting increase in producer surplus would be larger than any possible loss of consumer surplus.
 - d. the resulting increase in producer surplus would be smaller than any possible loss of consumer surplus.

ANS: B DIF: Challenging REF: 150

- 64. Suppose that the equilibrium price in the market for widgets is \$5. If a law increased the minimum legal price for widgets to \$6,
 - a. the resulting increase in consumer surplus would be larger than any possible loss of producer surplus.
 - b. the resulting increase in consumer surplus would be smaller than any possible loss of producer surplus.
 - c. any possible increase in producer surplus would be larger than the loss of consumer surplus.
 - d. any possible increase in producer surplus would be smaller than the loss of consumer surplus.

ANS: D DIF: Challenging REF: 150

- 65. If a market is allowed to move freely to its equilibrium price and quantity, then an increase in demand will
 - a. increase producer surplus.
 - b. reduce producer surplus.
 - c. not affect producer surplus.
 - d. possibly increase, decrease or not affect producer surplus.

ANS: A DIF: Average REF: 150

- 66. If a market is allowed to move freely to its equilibrium price and quantity, then an increase in supply will
 - a. increase consumer surplus.
 - b. reduce consumer surplus.
 - c. not affect consumer surplus.
 - d. possibly increase, decrease or not affect consumer surplus.

ANS: A DIF: Average REF: 150

67. A simultaneous increase in both the demand for and the supply of radios would imply that

- a. both the value of radios to consumers and the cost of producing radios has increased.
- b. both the value of radios to consumers and the cost of producing radios has decreased.
- c. the value of radios to consumers has decreased and the cost of producing radios has increased.
- d. the value of radios to consumers has increased and the cost of producing radios has decreased.

ANS: D DIF: Average REF: 150

- 68. Cornflakes and milk are complementary goods. A decrease in the price of corn would
 - a. increase consumer surplus in the market for cornflakes but decrease producer surplus in the market for milk.
 - b. increase consumer surplus in the market for cornflakes and increase producer surplus in the market for milk.
 - c. decrease consumer surplus in the market for cornflakes but increase producer surplus in the market for milk.
 - d. decrease consumer surplus in the market for cornflakes and decrease producer surplus in the market for milk.

ANS: B DIF: Challenging REF: 150

- 69. Orange juice and apple juice are substitutes. Bad weather that sharply reduced the orange harvest would
 - a. increase consumer surplus in the market for orange juice but decrease producer surplus in the market for apple juice.
 - b. increase consumer surplus in the market for orange juice and increase producer surplus in the market for apple juice.
 - c. decrease consumer surplus in the market for orange juice but increase producer surplus in the market for apple juice.
 - d. decrease consumer surplus in the market for orange juice and decrease producer surplus in the market for apple juice.

ANS: C DIF: Challenging REF: 150

- 70. A technological advance in the production of computers will
 - a. increase consumer surplus in the market for computers and decrease producer surplus in the market for computer software.
 - b. increase consumer surplus in the market for computers and increase producer surplus in the market for computer software.
 - c. decrease consumer surplus in the market for computers but increase producer surplus in the market for computer software.
 - d. decrease consumer surplus in the market for computers and decrease producer surplus in the market for computer software.

ANS: B DIF: Challenging REF: 150