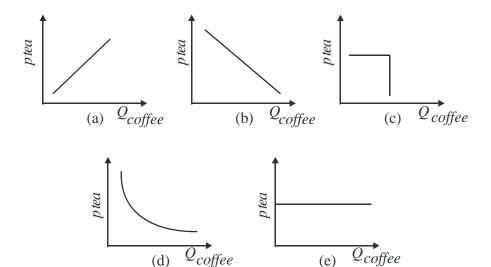
Homework 3

- 1. The fundamental condition of maximum satisfaction or utility is what principle?
 - A) Marginal utility principle.
 - B) Jevons principle.
 - C) Equimarginal principle.
 - D) Samuelson principle.
 - E) none of the above.
- 2. The rise in the price of butter will lead to:
 - A) a fall in the demand curve for butter.
 - B) a rightward shift in the demand curve for butter's substitute.
 - C) a leftward shift in the demand curve for butter's substitute.
 - D) an increase in the marginal utility of the last unit consumed of butter's substitute.
 - E) none of the above.
- 3. For the consumer to act rationally (i.e., achieve the greatest amount of satisfaction), he or she must:
 - A) maximize the sum of the marginal utilities of the last unit purchased of all goods in his or her budget.
 - B) equalize the marginal utilities of the last unit purchased of all commodities.
 - C) purchase no inferior goods.
 - D) equalize the marginal utilities of the last dollar spent upon each commodity or service purchased.
 - E) do none of the above.
- 4. The substitution effect says:
 - A) when the price of a beef increases, consumers will tend to substitute with chicken.
 - B) when the price of a beef increases, consumers will tend not to substitute.
 - C) when the price of a beef increases, consumers will tend to eat more beef.
 - D) when the price of a beef decreases, consumers will tend to substitute with chicken.
 - E) none of the above.
- 5. An upward shift in the supply curve of good Y, a complement of some good X, will tend to cause:
 - A) the demand curve for X to shift to the left.
 - B) the demand curve for X to shift to the right.
 - C) the price of X to increase even though the demand curve for X is unaffected.
 - D) the price of X to fall even though the demand curve for X is unaffected.
 - E) none of the above.

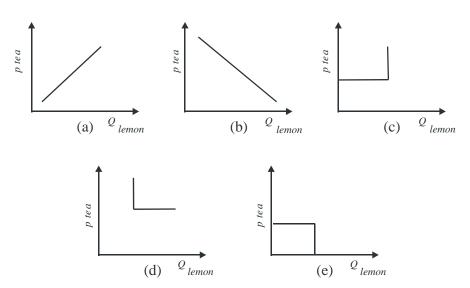
- 6. The price of good X is \$1.50 and that of good Y, \$1. A particular consumer who evaluates the marginal utility of Y to be 30 units, and is in equilibrium with respect to purchases of X and Y, must consider the marginal utility of X to be:
 - A) 15 units.
 - B) 20 units.
 - C) 30 units.
 - D) 45 units.
 - E) none of the above.
- 7. If two goods, such as tea and coffee, may be considered perfect substitutes, their price-quantity relations may be depicted by which panel in the figure below?



- A) a.
- B) b.
- C) c.
- D) d.
- E) e.
- 8. A consumer spends all of her income on two goods, coffee and doughnuts. She purchases coffee at 25 cents a unit with a total utility of 800 and a marginal utility of
 - 12. Doughnuts are purchase at 75 cents a unit with a total utility of 200 and a marginal utility of 24. In order to reach consumer equilibrium, she should consume:
 - A) less doughnuts and more coffee.
 - B) more doughnuts but the same amount of coffee.
 - C) more coffee but the same amount of doughnuts.
 - D) more doughnuts and less coffee.
 - E) the same amount of coffee and doughnuts.
- 9. Let there be two goods, X and Y. For individual A, the marginal utility of X is 2 while the marginal utility of Y is 1. If the prices of X and Y were both equal to \$10,

then individual A could improve his welfare even without an infusion of extra income by consuming:

- A) more X even at the expense of consuming less Y.
- B) more Y even at the expense of consuming less X.
- C) more X only if consumption of Y could be maintained at the original level.
- D) less X, but only if consumption of Y could be maintained at the original level.
- E) none of the above.
- 10. If two goods, such as tea and lemon, may be considered perfect complements, their price-quantity relations may be depicted by which panel of the figure below?



- A) a.
- B) b.
- C) c.
- D) d.
- E) e.
- 11. Suppose there are only two consumers (A & B) of good X in the economy. At a price of \$1 per unit consumer A demands 12 units and consumer B demands 24 units. The market demand for X at \$1 per unit is:
 - A) 36 units.
 - B) 18 units.
 - C) 12 units.
 - D) 288 units.
 - E) cannot be determined without knowledge of each consumer's marginal utility for the good.
- 12. Consider an accounting firm which hires workers to enter data into a computer program. Which of the following would be considered a short run decision?
 - A) The firm would like to hire ten more workers for a weekend shift.
 - B) The firm is considering an investment in additional computers.

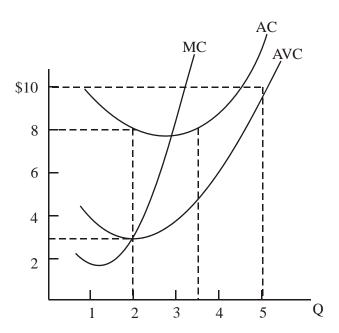
- C) The firm would like to build its own facility.
- D) The firm might purchase new computer software that would require some new computer hardware as well as extensive training for workers.
- E) All of the above decisions could be made in the short run.
- 13. Average product of labor measures:
 - A) the addition to total output when an additional worker is hired.
 - B) total product divided by total cost.
 - C) the marginal product of the last worker multiplied by the wage rate.
 - D) total product divided by the wage rate.
 - E) total product divided by the quantity of labor.
- 14. The "double taxation" disadvantage of incorporation refers to the:
 - A) fact that a small proprietor who incorporated would, given the present tax schedules, typically find that he pays about double the tax he was paying before incorporation.
 - B) application of an excess-profits tax on corporate income, over and above the regular corporation income tax.
 - C) taxation of all corporate profits, paid first by the corporation and then by the shareholder, regardless of the amount distributed as dividends.
 - D) taxation of corporate profits, paid by the corporation, and taxation of dividends received, paid by the shareholder.
 - E) none of these.
- 15. A different kind of efficiency that arises when a number of different products that can be produced more efficiency together than apart:
 - A) economies of scope.
 - B) economies of scale.
 - C) economies of growth.
 - D) none of the above.
- 16. Suppose that you have drawn a total product curve for labor given a specific technology. Now let some sort of technological change increase the productivity of labor. A new total product curve would have to be drawn:
 - A) above the old with a steeper slope for any level of employment greater than zero.
 - B) above the old with a flatter slope for any level of employment greater than zero.
 - C) below the old with a steeper slope for any level of employment greater than zero.
 - D) below the old with a flatter slope for any level of employment greater than zero.
 - E) directly over the old curve signifying no change in the total product graph; only the marginal product graph would change.
- 17. The "double taxation" disadvantage of incorporation refers to the:
 - A) fact that a small proprietor who incorporated would, given the present tax schedules, typically find that he pays about double the tax he was paying before

- incorporation.
- B) application of an excess-profits tax on corporate income, over and above the regular corporation income tax.
- C) taxation of all corporate profits, paid first by the corporation and then by the shareholder, regardless of the amount distributed as dividends.
- D) taxation of corporate profits, paid by the corporation, and taxation of dividends received, paid by the shareholder.
- E) none of these.
- 18. A different kind of efficiency that arises when a number of different products that can be produced more efficiency together than apart:
 - A) economies of scope.
 - B) economies of scale.
 - C) economies of growth.
 - D) none of the above.
- 19. Microsoft lets you have their software, Internet Explorer. By what you know about marginal cost how can they do this and stay in business?
 - A) They went out of business because of this.
 - B) The marginal cost of distributing an extra unit of software is very close to zero.
 - C) The marginal cost is high but they do it anyway.
 - D) They are covering their fixed costs.
 - E) They now charge for Internet Explorer.
- 20. If 25 units of a good are produced at a fixed cost of \$50 and a total cost of \$550, then the average variable cost of producing the good is:
 - A) \$15.
 - B) \$20.
 - C) \$25.
 - D) \$30.
 - E) none of the above.
- 21 . If the total cost of producing 6 units is \$48 and the marginal cost of the seventh unit is \$15, then:
 - A) the average total cost of 7 units is \$9.
 - B) the average variable cost of 7 units is \$9.
 - C) fixed costs are \$8.
 - D) fixed costs are \$33.
 - E) none of the above are true.
- 22. If it is true that handling the mail does not get cheaper as the volume of mail increases, which of the following best explains this fact?
 - A) The Post Office is run by the government and therefore is inefficient.
 - B) The rule "the bigger the volume, the lower the cost" is true only if other things

- remain the same; since technological knowledge changes constantly, the cost of handling mail need not fall.
- C) Although the rule "the bigger the volume, the lower the cost" is true of most industries, it is not true of all of them.
- D) The rule "the bigger the volume, the lower the cost" is true only up to a point, beyond which costs rise.
- E) The rule "the bigger the volume, the lower the cost" generally applies only to private industry.
- 23. If it costs \$30 to produce the first unit of a good and \$28, \$27, \$25, \$23,\$24, and \$25 to produce the next six units, respectively, then the minimum of the average cost curve could occur at:
 - A) 1 unit.
 - B) 2 units.
 - C) 3 units.
 - D) 5 units.
 - E) none of the above.

Use the following to answer questions 24-25

Figure 7-1



- 24. In Figure 7-1, the minimum of the AC curve occurs:
 - A) between Q = 2 and Q = 3.
 - B) between Q = 3 and Q = 4.
 - C) at Q = 4.
 - D) between Q = 4 and Q = 5.

- E) none of the above.
- 25 In Figure 7-1 what are total fixed costs at Q = 2?
 - A) 5
 - B) 10
 - C) 13.75
 - D) 15
 - E) None of the above.

Chapter 5, Questions for discussion, page 100 Q6, Q9, Q12

Chapter 6 Questions for discussion, page 124-125 Q2, Q7, Q8

Chapter 7, Questions for discussion, page 142-143 Q2, Q5