CH 12	
Multiple C Identify the	Phoice choice that best completes the statement or answers the question.
1.	The fundamental goal of a firm is  a. different for each firm.  b. to make a quality product.  c. to maximize profit.  d. to gain market share.  e. decrease its employment of workers in order to cut its costs.
2.	Lauren runs a chili restaurant in San Francisco. Her total revenue last year was \$110,000. The rent on her restaurant was \$48,000, her labor costs were \$42,000, and her materials, food and other variable costs were \$20,000. Lauren could have worked as a biologist and earned \$50,000 per year. An economist calculates her implicit costs as  a. \$150,000.  b. \$63,000.  c. \$50,000.  d. \$110,000.  e. \$0 because Lauren did not work as a biologist.
3.	Which of the following is(are) an explicit cost in Jim's business venture?  a. the salary Jim could have earned at another job  b. the interest Jim does not earn because he invested his savings in his business  c. the wages Jim pays his workers  d. Jim's normal profit  e. Answer A, answer B, and answer D are correct.
4.	A cost incurred in the production of a good or service and for which the firm does not need to make a direct monetary payment, is referred to as cost.  a. a minimized  b. a maximized  c. an explicit  d. an implicit  e. an invisible
5.	An implicit cost is  a. when a money payment is made only because a factor of production is used.  b. when a factor of production is used but a money payment is not made.  c. when a money payment is made.  d. not relevant to an entrepreneur's decision making.  e. considered part of the owner's economic profit.
6.	Suppose Billy owns a hair salon in Dallas. He has one large hair dryer for which he paid \$1,000. If he can sell the dryer one year later for \$800, his total economic depreciation equals  a. \$1,000.  b. \$200.  c. \$800.  d. \$500.  e. None of the above answers are correct.

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	April quit her job as an accountant at Ernst and Young, where she was paid \$45,000 per year. She started hown landscaping business. She rents machines and tools for \$50,000 and pays \$10,000 as wages to her help These are her only costs. April earned total revenue of \$100,000.  a. Her accountant calculates her profit as \$40,000.  b. She has an economic loss.  c. Her explicit cost is \$105,000.  d. Both answers A and B are correct.  e. Both answers A and C are correct.	
8		eur
<u> </u>		l
10	Which of the following is a long-run and not a short-run decision for a firm?  a. hiring fewer people  b. increasing plant capacity by fifty percent  c. hiring more people  d. Answer A and answer B are correct.  e. Answer B and answer C are correct.	
11	The change in the total product that results from a one-unit increase in the quantity of labor employed is known as  a. changed total product.  b. marginal product.  c. average product.  d. total product.  e. None of the above answers is correct.	

Quantity of labor (workers)	Total product (hair stylings per day)
0	0
1	10
2	25
3	45
4	60
5	70

- 12. The above table shows the total product schedule for Hair Today, a hair styling salon. Based on the table, the marginal product for Hair Today
  - a. never reaches a maximum.
  - b. decreases after the 1st worker.
  - c. reaches a maximum with the 4th worker.
  - d. reaches a maximum with the 3rd worker.
  - e. reaches a maximum with the 5th worker.
- 13. Chuck owns a factory that produces leather footballs. His total fixed cost equaled \$86,000 last year. His total cost equaled \$286,000 last year. Hence Chuck's
  - a. total variable cost was zero.
  - b. incurred an economic loss.
  - c. total variable cost equaled \$200,000.
  - d. total variable cost equaled \$372,000.
  - e. None of the above answers is correct.
- 14. If Melissa owns a software company that incurs no fixed costs, then
  - a. her total cost equals her total variable cost.
  - b. she will earn an economic profit.
  - c. her total variable cost is less than her total cost.
  - d. her total cost equals zero.
  - e. her marginal cost must equal zero.

Output (gallons of ice	Total cost
cream per hour)	(dollars)
0	1
1	2
2	3
3	5
4	8
5	11

- 15. The Jerry-Berry Ice Cream Shoppe's total cost schedule is in the above table. Based on the table, the marginal cost of producing the fourth gallon of ice cream is
  - a. \$2.
  - b. \$3.
  - c. \$5.
  - d. \$8.
  - e. \$32.

Quantity of labor (workers)	Total product (dogs groomed per week)
(WOIRCIS)	(dogs groomed per week)
U	U
1	40
2	100
3	150
4	190
5	220
6	240

16.	Anna owns a dog grooming salon in Brunswick, Georgia. The above table has Anna's total product schedule.
	Anna pays each worker \$300 per week and she pays rent of \$600 a week for her salon. These are her only
	costs. When Anna has a staff of 2 workers, her average variable cost equals

- a. \$2,400.
- b. \$300.
- c. \$6.00.
- d. \$10.00.
- e. \$600.

17.	Anna owns a dog grooming salon in Brunswick, Georgia. The above table has Anna's total product schedule
	Anna pays each worker \$300 per week and she pays rent of \$600 a week for her salon. These are her only
	costs. When Anna has a staff of 6 workers, her average variable cost equals

- a. \$2,400.
- b. \$300.
- c. \$7.50.
- d. \$10.00.
- e. \$1,800.

18.	Anna owns a dog grooming salon in Brunswick, Georgia. The above table has Anna's total product schedule
	Anna pays each worker \$300 per week and she pays rent of \$600 a week for her salon. These are her only
	costs. When Anna has a staff of 6 workers, her average fixed cost equals

- a. \$600.
- b. \$2.50.
- c. \$7.50.
- d. \$10.00.
- e. \$6.00.

19.	The vertical distance between the total cost curve and the total variable cost curve	as output in	icreases
	and the vertical distance between the average total cost curve and average variable cost	curve	as output
	increases.		

- a. is constant; decreases
- b. decreases; is constant
- c. increases; decreases
- d. decreases; increases
- e. decreases; decreases

20.	The marginal cost curve is U-shaped. Over the range of output for which the marginal cost is falling as output
	increases, the marginal product is
	a. increasing.
	<ul><li>b. decreasing.</li><li>c. constant.</li></ul>
	<ul><li>c. constant.</li><li>d. probably changing, but there is no stable relationship between the marginal cost and the</li></ul>
	marginal product.
	e. not defined.
21	A firm has economies of scale when its average total cost of production as the size of a its plant and its
21.	labor force .
	a. decreases; increase by the same percentage
	b. does not change; increase by the same percentage
	c. increases; increase by the same percentage
	d. decreases; do not change
	e. decreases; decrease by the same percentage
22.	Economies of scale occur when, as output increases, the
	a. long-run average cost increases.
	b. long-run average cost decreases.
	c. short-run average total cost decreases.
	d. long-run average cost stays constant.
22	e. long-run fixed cost decreases.
23.	Diseconomies of scale occurs when the average total cost of production as the size of a plant and its
	labor force a. decreases; increase by the same percentage
	<ul><li>a. decreases; increase by the same percentage</li><li>b. does not change; increase by the same percentage</li></ul>
	c. increases; increase by the same percentage
	d. decreases; do not change
	e. increases; do not change
24.	
	a. decreasing marginal returns as more labor is hired
	b. constant fixed costs as output is increased
	c. economies and diseconomies of scale
	d. increasing marginal returns as more labor is hired
	e. decreasing average fixed costs as output is increased
25.	The long-run average cost curve
	a. is an upside down U-shape.
	b. is constructed using the short-run marginal cost curves.
	c. shows economies and diseconomies of scale.
	<ul><li>d. Both answer A and answer B are correct.</li><li>e. Both answer A and answer C are correct.</li></ul>
	e. Both answer A and answer C are correct.

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26.	Which of the following variables do you need to know to calculate marginal cost?  i. change in total cost  ii. marginal product of labor  iii. change in quantity of labor used  iv. change in output	
	<ul> <li>a. i and ii</li> <li>b. i and iv</li> <li>c. ii and iv</li> <li>d. i, iii, and iv</li> <li>e. Only ii</li> </ul>	
27.	Which of the following contributes to increasing marginal returns?  a. decreasing implicit costs  b. increasing explicit costs  c. specialization of labor  d. Both answer A and answer B are correct.  e. Both answer A and answer C are correct.	
28.		
29.		
30.		
31.		
	<ul> <li>a. i only</li> <li>b. i and ii</li> <li>c. ii and iii</li> <li>d. i, ii, and iii</li> <li>e. Only iii</li> </ul>	

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- 32. A firm's fundamental goal is to
  - a. maximize output.
  - b. minimize costs.
  - c. maximize total revenue.
  - d. maximize profit.
  - e. drive its competitors out of business.
  - 33. Which of the following is an implicit cost?
    - i. wages paid to workers
    - ii. the normal profit
    - iii. the electric bill
    - a. i only.
    - b. ii only.
    - c. i and ii.
    - d. ii and iii.
    - e. i, ii, and iii.
  - 34. Increasing marginal returns to labor
    - a. occur when a particularly efficient worker is employed.
    - b. describe the portion of a total product curve where the marginal product is negative.
    - c. mean that two workers produce less than twice the output of one worker.
    - d. are the result of specialization and division of labor in the production process.
    - e. occur only when there are increasing marginal returns to capital.
  - 35. The average product is the greatest in the short run when the
    - a. total product is maximized.
    - b. marginal product is equal to zero.
    - c. marginal product is maximized.
    - d. marginal product is equal to the average product.
    - e. marginal product is greater than the average product.

36.

Quantity of labor	Total product	
(workers)	(rolls of film processed per hour)	
0	0	
1	2	
2	5	
3	8	
4	15	
5	22	
6	26	
7	28	

The table above shows the total product schedule for Rick's Films, a film developing hut. When the \_\_\_\_\_ worker is hired, the average product of labor \_\_\_\_\_ the marginal product of labor.

- a. 4th; exceeds
- b. 5th; exceeds
- c. 6th; exceeds
- d. 7th; is less than
- e. 7th; equals

37.

Quantity of labor (workers)	Total product (rolls of film processed per hour)
0	0
1	2
2	5
3	8
4	15
5	22
6	26
7	28

The table above shows the total product schedule for Rick's Films, a film developing hut. When does the average product of labor equal the marginal product of labor?

- a. between the 4th and 5th workers
- b. at the 5th worker
- c. between the 5th and 6th workers
- d. between the 6th and 7th workers
- e. between 0 workers and the 3rd worker
- 38. If 25 workers can pick 100 flats of strawberries per hour, then average product is
  - a. 100 flats per hour.
  - b. 125 flats per hour.
  - c. 75 flats per hour.
  - d. 4 flats per hour.
  - e. More information is needed about how many flats 24 workers can pick.
- 39. Total variable cost
  - a. includes the cost of capital.
  - b. includes the cost of labor.
  - c. includes both the cost of capital and of labor.
  - d. does not change when production changes.
  - e. is positive when output is zero.
- 40. The total variable cost curve because as output increases.
  - a. slopes upward; variable cost increases
  - b. slopes upward; marginal cost increases
  - c. slopes downward; variable cost increases
  - d. slopes downward; marginal cost increases
  - e. is horizontal; fixed cost does not change
- 41. Which of the following is correct for variable and marginal costs?
  - a. They will equal zero if nothing is produced.
  - b. The two costs will never equal each other.
  - c. They will both increase if fixed costs increase.
  - d. Adding the two yields total cost.
  - e. Both include only explicit costs of production.

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- 42. When marginal cost is positive, total cost is as output increases.
  - a. increasing
  - b. decreasing
  - c. constant
  - d. negative
  - e. undefined

43.

Labor	
(workers)	Output
0	0
1	20
2	50
3	70
4	80
5	85

The table above shows a total product schedule. Suppose that labor cost \$20 per worker and fixed costs are \$60. The total cost of producing 80 units equals

- a. less than \$5.
- b. more than \$5 and less than \$110.
- c. more than \$110 and less than \$120.
- d. more than \$120 and less than \$150.
- e. more than \$150.
- 44. If marginal cost increases when output increases, then
  - a. marginal product must decrease when output increases.
  - b. average fixed cost is constant.
  - c. total cost is constant.
  - d. average variable cost must increase when output increases.
  - e. average total cost must decrease when output increases.
  - 45. If another worker is hired with a marginal product greater than the previously hired worker, which of the following will be true?
    - a. total costs will decrease
    - b. fixed costs will decrease
    - c. marginal cost will increase
    - d. marginal cost will decrease
    - e. average fixed costs will increase
- 46. Cost curves shift if
  - i. technology changes.
  - ii. there are changes in the prices of factors of production.
  - iii. productivity changes.
  - a. only i.
  - b. i and iii.
  - c. only ii.
  - d. i and ii.
  - e. i, ii, and iii.

Name:	ID: A
47.	An increase in the price of labor (a variable resource) shifts  a. all cost curves upward.  b. the variable cost curves upward but leaves the fixed cost curves unchanged.  c. the fixed cost curves upward but leaves the variable cost curves unchanged.  d. the marginal cost curve rightward.
48.	<ul> <li>e. none of the cost curves.</li> <li>If we know the amount of total cost, average total cost, average variable cost, and marginal cost for each level of output, how can we find the level of output where the marginal product is the greatest?</li> <li>a. It is the output for which the marginal cost equals average variable cost.</li> <li>b. It is the output for which the total cost is maximized.</li> <li>c. It is the output for which the marginal cost is minimized.</li> <li>d. It is the output for which the marginal cost equals average total cost.</li> <li>e. There is no way to find where marginal product is the greatest knowing only cost data.</li> </ul>
49.	A firm can enjoy economies of scale because of increased specialization of  a. capital only.  b. labor only.  c. capital and/or labor.  d. neither capital nor labor.  e. costs.
50.	Bob is an entrepreneur who hires college students to sell hot dogs in the busy downtown area of his hometown. Each student is paid the same wage rate, given an identically supplied hot dog cart, and assigned to a specific area. If as Bob increases his scale of operation from 3 carts to 4 carts, each cart produces and sells the same number of hot dogs per day, Bob experiences  a. economies of scale.  b. diseconomies of scale.  c. constant returns to scale.  d. decreasing total costs.  e. zero marginal cost.