MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- Which one of the following is generally considered a characteristic of a perfectly
 1) _____
 competitive labor market?
 - A) a few workers of varying skills and capabilities
 - B) wage-setting behavior by firms
 - C) numerous firms hiring labor from the same pool of qualified workers
 - D) costly information
- 2) A perfectly competitive labor market may be characterized by all of the following *except* 2) ______
 A) neither firms nor workers have any control over the market wage.
 - B) a few firms that dominate hiring in the market.
 - C) numerous equally qualified workers.
 - D) perfect information.

3) Which of the following best explains why the *market* labor supply curve is upward sloping, even though *individual* supply curves are normally backward bending?

A) The statement is not true: market labor supply curves are also backward bending.

3)

4) _____

5) _____

- B) Market labor supply curves are "price-adjusted," whereas individual supply curves are not.
- C) Lower wages in a given market increase the demand for labor, so more labor must be supplied to maintain labor market equilibrium.
- D) Higher wages in a given market attract more workers away from other activities, more than compensating for any reduction in hours by individuals already in the market.

4) Market labor supply curves are generally

- A) upward sloping, as higher wages attract workers away from their next best alternatives.
- B) backward-bending, as the substitution effect of higher wages outweighs the income effect.
- C) vertical at any particular point in time.
- D) perfectly elastic at the market wage rate.
- 5) In a perfectly competitive environment, the height of the market labor supply curve at any given number of labor hours indicates
 - A) the total cost of employing that number of hours in the given occupation.
 - B) the marginal cost of employing the first hour of labor.
 - C) the value of the alternative activity in which the marginal hour might otherwise be used.
 - D) the maximum wage employers would be willing to pay to attract additional labor.

6) A firm will obtain its profit maximizing level of employment where

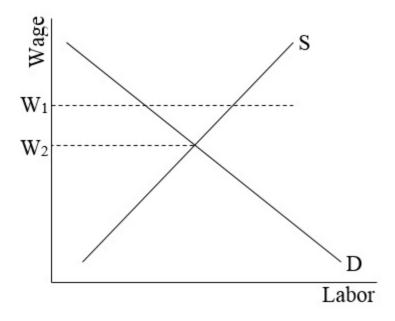
A) marginal revenue product equals value of marginal product.

6)

7)

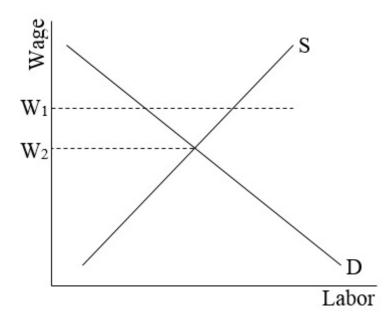
- B) marginal revenue product equals marginal wage cost.
- C) value of marginal product equals marginal wage cost.
- D) marginal product equals marginal revenue product.

7) Refer to the following diagram of a perfectly competitive labor market.



At wage rate W₁, there is an

- A) excess supply of labor and the wage rate will fall.
- B) excess supply of labor and the wage rate will rise.
- C) excess demand for labor and the wage rate will fall.
- D) excess demand for labor and the wage rate will rise.



For the supply and demand curves in the diagram, the level of employment will be highes A) wage rate W₁. B) wage rate W₂.

C) a wage rate higher than W_1 . D) a wage rate lower than W_2 .

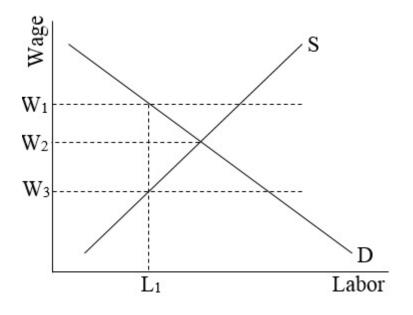
9) There will be a shortage of labor in a particular market if	9)
A) labor supply increases and demand decreases.	
B) the current wage is above the wage that would clear the market.	
C) there is a decrease in the price of a substitute resource.	
D) the current wage is below the wage that would clear the market.	
10) If capital and labor are gross complements, an increase in the cost of capital will	10)
A) increase the supply of labor and drive the wage down.	
B) decrease the demand for labor and drive the wage down.	
C) increase the demand for labor and drive the wage up.	
D) either increase or decrease the demand for labor depending on whether the	
substitution effect or the output effect is stronger.	
11) Suppose workers in labor market X are qualified to work in an alternative competitive	11)
labor market Y, and vice versa. An increase in the demand for labor in market Y will	
A) increase labor supply in X and drive its wage down.	
B) decrease labor supply in X and drive its wage up.	

- C) reduce labor supply in Y and drive its wage down.
- D) have no impact at all in X.

8)

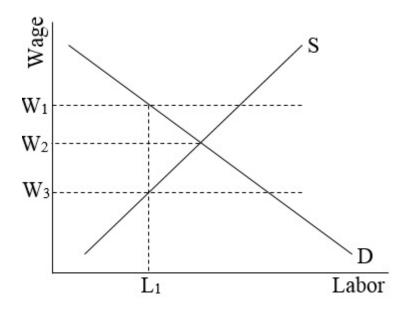
12) A net increase in people's preferences for work relative to leisure in a particular market will	12)
A) increase labor supply, reducing the wage rate.	
B) decrease labor supply, increasing the wage rate.	
C) increase labor demand, increasing the wage rate.	
D) decrease labor demand, reducing the wage rate.	
13) All else equal, which of the following will increase the demand for labor in a particular	13)
market?	
A) a decrease in the wage paid to another occupation for which these workers are qualified	
B) a decrease in worker productivity	
C) an improvement in the nonwage aspects of the job	
D) an increase in the number of employers	
14) At the profit-maximizing level of employment for a monopolist,	14)
A) marginal revenue product equals the value of marginal product.	
B) marginal revenue product exceeds the value of marginal product.	
C) value of marginal product equals the marginal wage cost.	
D) marginal revenue product is less than the value of marginal product.	
15) All profit-maximizing firms hire labor up to the point where	15)
A) price times marginal product equals the wage rate.	
B) marginal revenue times marginal product equals the wage rate.	
C) price times marginal product equals the marginal wage cost.	
c) price marginar product equals the marginar wage cost.	

D) marginal revenue times marginal product equals the marginal wage cost.



Suppose the wage is currently W_1 and L_1 is the level of employment. If the firm sells its output competitively, the value of the last worker's additional output is ______ and the opportunity cost of the last worker's time is ______.

A) $W_1; W_1$ B) $W_1; W_2$ C) $W_1; W_3$ D) $W_2; W_2$



Suppose the wage is currently W₃ and L₁ is the level of employment. Then we should expect the wage to

A) rise and employment to rise.

B) rise and employment to fall.

C) fall and employment to rise.

D) fall and employment to fall.

18) Which one of the following conditions is required for allocative efficiency?

- A) Marginal revenue product exceeds the value of marginal product by the greatest amount.
- B) Marginal revenue product equals the wage rate.
- C) Value of marginal product equals the marginal wage cost.
- D) Value of marginal product is the same in all alternative employments of a given type of labor.
- 19) Allocative efficiency is achieved when
 - A) the marginal product of labor equals its value of marginal product.
 - B) all resources are fully employed.
 - C) the price of each resource equals the value of its marginal product.
 - D) the price of each resource equals the value of its marginal product and its marginal opportunity cost.

6

18)

20) Allocative inefficiency in a labor market may be caused by

- A) monopoly power in the product market.
- B) monopsony power in the labor market.
- C) either monopoly power in the product market or monopsony power in the labor market.
- D) neither monopoly power in the product market nor monopsony power in the labor market.
- 21) Refer to the following table that shows the short-run production relationship and the 21) ______ product demand schedule for a firm.

Labor	Output	Output Price
1	10	\$20.00
2	15	19.00
3	19	18.00
4	22	17.00
5	24	16.00
6	25	15.00

The table indicates that

A) the firm sells output in a perfectly competitive market.

- B) the firm is a monopolist.
- C) the firm hires labor in a perfectly competitive market.
- D) the firm is a monopsonist.
- 22) Refer to the following table that shows the short-run production relationship and the product demand schedule for a firm.

Labor	Output	Output Price
1	10	\$20.00
2	15	19.00
3	19	18.00
4	22	17.00
5	24	16.00
6	25	15.00

What is the marginal revenue product of the fourth worker?

A) \$17	B) \$32	C) \$51	D) \$374

23) Refer to the following table that shows the short-run production relationship and the product demand schedule for a firm.

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What is the value of the fourth worker's marginal product?A) \$17B) \$32C) \$51D) \$374

24) Refer to the following table that shows the short-run production relationship and the product demand schedule for a firm.

Labor	Output	Output Price
1	10	\$20.00
2	15	19.00
3	19	18.00
4	22	17.00
5	24	16.00
6	25	15.00

How many workers will this firm hire if the wage is \$15?A) 3B) 4C) 5D) 6

25) For a firm hiring labor and selling its output	at in perfectly competitive markets,
A) $P_L = MWC$ and $VMP = MRP$.	B) $P_L = MWC$ and $VMP > MRP$.
C) $P_L > MWC$ and $VMP = MRP$.	D) $P_L > MWC$ and $VMP > MRP$.

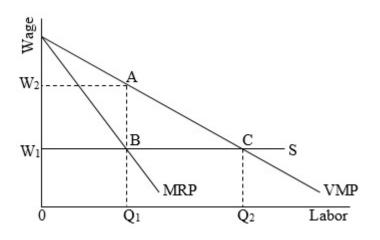
- 26) Which of the following is a *true* statement?
 - A) Monopolists employ too many labor resources, because the value of the marginal product exceeds the marginal opportunity cost of labor.
 - B) For a monopolist, the marginal revenue product of labor exceeds marginal wage at the profit-maximizing level of employment.
 - C) Monopolists pay a lower wage than competitors for the same type of labor.
 - D) The monopolist's demand for labor curve is less elastic than if it were a competitor in the sale of its output.

26) _____

25)

27) Compared to a firm that sells its output competitively, an otherwise identical monopolist 27) _____ operating in the same labor market will

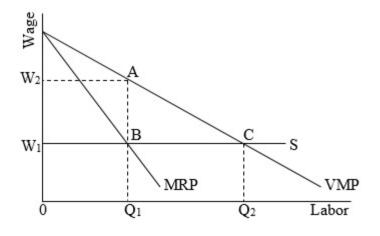
- A) pay a lower wage.
- B) pay the same wage.
- C) pay a higher wage.
- D) may pay either a higher or lower wage.
- 28) Refer to the following diagram that shows the labor demand for a monopolistic firm28) _____hiring labor from a competitive labor market.



At the profit-maximizing level of employment, the wage rate is ______ and the level of employment is ______.

A) $W_1; Q_1$ B) $W_1; Q_2$ C) $W_2; Q_1$ D) $W_2; Q_2$

29) Refer to the following diagram that shows the labor demand for a monopolistic firm hiring labor from a competitive labor market.

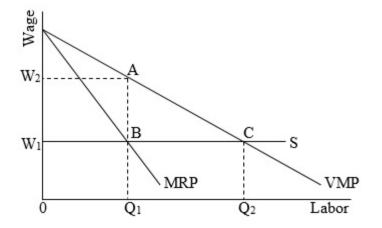


The efficiency loss associated with the profit-maximizing wage and employment level is by area

A) Q_1ACQ_2 . B) BAC. C) $0W_2AQ_1$. D) W_1W_2AC .

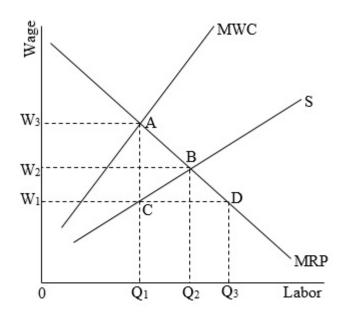
30) Refer to the following diagram that shows the labor demand for a monopolistic firm hiring labor from a competitive labor market.

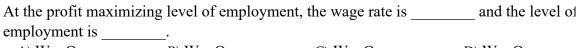
30) _____

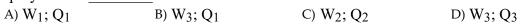


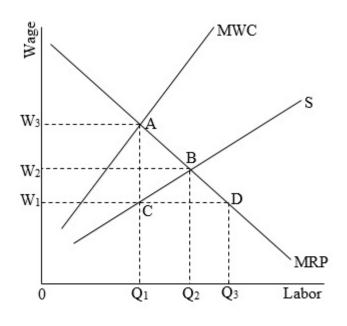
The allocatively efficient level of employment for this firm is given by

31) A monopsonist's marginal wage cost curve is positively sloped becauseA) it "discriminates" by paying each worker a different wage according to his or her opportunity cost.				31)
	lower price for eac for all units sold.	h additional unit of outp	out, and it must charge	
C) it pays its work restricted.	ers lower wages, so	that the supply of labor	to the market is	
D) it must pay a hi wage to all wor		additional workers, and	l it must pay this higher	
32) A firm can hire 20 w attract another worke cost of the 21st work	er. If it must pay all	nour, but finds it must ra its workers the same wa	e	32)
A) \$10.	B) \$11.	C) \$21.	D) \$31.	
B) marginal revenuC) the wage is less	zing level of emplo ds the marginal wag the product equals th than marginal wag oct equals marginal r	e cost. e wage. e cost.	st,	33)
34) Compared to a mono otherwise identical nA) a lower wage.C) the same wage.	-	onopoly power in the pr B) a higher wag	oduct market will pay	34)



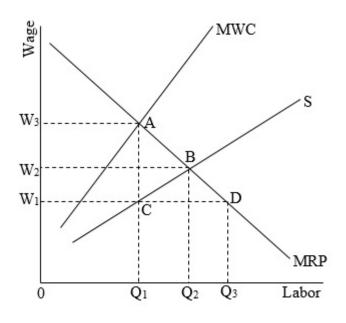






Relative to their monopsony levels, both the wage and the level of employment would inc this market if a wage-setting union negotiates a wage

- A) anywhere between W_1 and W_3 .
- C) anywhere between W_1 and W_2 .
- B) anywhere between W₂ and W₃.
- D) equal to W_2 only.



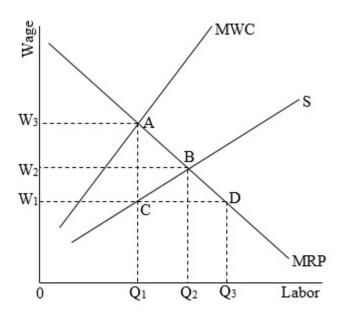
If legislation set the minimum wage at W2, then employment

A) would fall from its original monopsony level.

B) would remain unchanged.

C) would rise from its original monopsony level.

D) may or may not change from its original monopsony level.

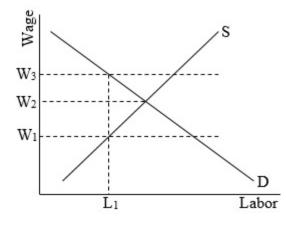


If this firm sells its output in a competitive market (so that MRP = VMP), the allocative efficiency loss in the labor market is given by area

A) W₃ACW1. B) Q1ABQ2. C) CAD. D) CAB.

- 39) Compared to the allocatively efficient amount, a monopsonist tends to hire
 - A) too few workers because the value of marginal product exceeds marginal revenue product.
 - B) too few workers because marginal wage cost exceeds the wage rate.
 - C) too many workers because the value of marginal product exceeds marginal revenue product.
 - D) too many workers because marginal wage cost exceeds the wage rate.
- 40) One criticism of the cobweb model is that
 - A) students form rational expectations of the effect of changes in labor demand and adjust their supply responses accordingly.
 - B) the prediction of chronic boom-bust cycles is not borne out in the real world.
 - C) students adjust career decisions based on starting salaries rather lifetime earnings.
 - D) demand is likely to shift as the market approaches equilibrium, so that equilibrium is never achieved.

39) _



Suppose the wage is currently W_1 and L_1 is the level of employment. If this market is characterized by delayed supply responses, in the immediate period the wage will

A) rise and employment will rise.

B) rise and employment will remain unchanged.

C) remain unchanged and employment will rise.

D) remain unchanged and employment will remain unchanged.

42) With respect to Major League Baseball, studies by Scully and others found that

- A) players were paid substantially less than their marginal revenue products prior to free agency.
- B) players were paid their marginal revenue products even before free agency, which is consistent with the competitive nature of the baseball business.
- C) players were paid their marginal revenue products prior to free agency. Since that time, salaries have fallen below marginal revenue products.
- D) salaries far exceed marginal revenue products since the advent of free agency.

43) Since passage of NAFTA, trade between the U.S., Canada, and Mexico has

- A) increased, but the effects on employment have been modest.
- B) increased, causing substantial loss of U.S. manufacturing jobs.
- C) increased, causing substantial loss of U.S. service-sector jobs.

D) not changed, but there has been a substantial loss in U.S. manufacturing jobs.

16

42)

43)