In addition to the questions below, solve the following end of chapter problems:

Review questions 1, 3-6, 8; Problems 1-3

1. Suppose that workers can go to firms without training and earn $20,000 per year for the remainder of their work life (suppose that is 20 years). Assume a zero interest rate. Further, suppose that YUKON (a fictional employer) provides firm specific training at a cost of $10,000 in the first year and the worker produces nothing during that first year. The training will increase the worker's productivity to $21,000 in years 2-20.

a. If Yukon pays workers $20,000 per year for 20 years and can force workers to stay for the 20 years, should it hire and train more or less workers? Why?

b. If Yukon cannot force workers to stay for the 20 years, how could it structure pay to increase the chance that the worker will stay?

c. Why might employees be reluctant to accept the kind of pay system described in b?

d. If the training provided by Yukon was general instead of firm specific, how much could Yukon pay the worker in period 1 if it is to break even on the worker and can't force the worker to stay? Explain.

2. Explain why workers with firm specific training would be less likely to be laid off when there is a downturn in demand for the employer's product.

Multiple-Choice

1. A quasi-fixed cost of labor is a cost that
   A) is expected to change over time.
   B) is proportional to the number of hours worked.
   C) is proportional to the number of workers hired.
   D) is proportional to the amount of capital used.

2. Which of the following is definitely NOT a quasi-fixed cost of labor?
   A) unemployment insurance
   B) health insurance
   C) overtime pay
   D) vacation pay

3. An increase in quasi-fixed costs would probably lead to a(n) ________ in the number of employees hired and a(n) ________ in the number of overtime hours worked.
   A) increase; decrease
   B) increase; increase
   C) decrease; decrease
   D) decrease; increase

4. A mandated increase in overtime pay is likely to
   A) cause employers to reduce overtime hours and convert them into added employment.
   B) directly reduce the quasi-fixed costs per worker.
   C) lead to a reduction in employment if higher costs cause a large scale effect.
   D) lead to a reduction in employment if those who work overtime and those who are unemployed are perfect substitutes.

5. A mandated increase in overtime pay is likely to
A) raise the average costs of labor, even if all overtime hours were eliminated.
B) cause an increase in labor hours due to the scale effect.
C) cause employers to increase straight-time hourly wages to compensate (because of the "package" agreed upon).
D) cause an increase in labor hours due to the substitution effect.

6. Use of temporary-help agencies
   A) increases employees' costs associated with searching for and applying for available temporary openings.
   B) increases the quasi-fixed costs of hiring temporary workers.
   C) is more common when firms can build up inventories.
   D) requires employers to pay more per hour than if they hired the worker directly.

7. Legislation requiring employer-provided health insurance for part-time workers would probably _________ the employment of part-time workers and _________ the overtime of full-time workers.
   A) increase; increase
   B) increase; decrease
   C) decrease; increase
   D) decrease; decrease
8. If a firm offers specific training to its workers, when the training is over,
   A) workers will most likely be paid a wage that is equal to their marginal product.
   B) workers will most likely be paid a wage that is greater than their marginal product, to compensate
      for the training.
   C) workers will most likely be paid a wage that is less than their marginal product.
   D) workers will most likely be paid a wage that is less than their wage before training.

9. If reserve clauses were outlawed in major-league baseball,
   A) major league teams would have less incentive to train minor league players.
   B) minor league players would be paid more.
   C) players in the major leagues would be paid less than their marginal product.
   D) players in the major leagues would be paid more than their marginal product.

10. Workers with firm-specific training are _______ likely to be laid off than are workers with general
     training because _______
     A) more; they are paid less than workers with general training.
     B) more; their wage is less than their marginal product.
     C) less; they are paid less than workers with general training.
     D) less; their wage is less than their marginal product.

11. Employment-at-will means that
    A) employees have the right to be hired for any job they desire.
    B) employees have the right to be hired at any job for which they are qualified.
    C) employers must have a "just reason" to fire an employee.
    D) both employees and employers have the right to terminate employment at any time, for any reason.

12. Policies which protect workers against "unjust dismissal " have been shown to cause
    A) decreased employment levels and increased hour fluctuations.
    B) increased employment levels and decreased hour fluctuations.
    C) increased employment levels and increased hour fluctuations,
    D) decreased employment levels and decreased hour fluctuations.

Table 5-1: Two-Period Training Model
W0 = wage in first period
W1 = wage in second period
MP0 = marginal product of labor in first period
MP1 = marginal product of labor in second period
MP* = marginal product of labor in other jobs
Z = cost of training
W* = market wage for firms offering single period jobs

13. A profit-maximizing firm which wants to provide firm-specific training to its workers will pay
    _______ in the training period and _______ after training is completed. (See Table 5-1 for
    definitions of abbreviations.)
    A) W*, W*
    B) more than W*; more than W*
    C) less than W*; less than MP1
    D) more than MP*; more than MP*

14. A profit-maximizing firm which wants to train its workers during the first period CANNOT (see Table
    5-1 for definitions of abbreviations)
    A) equate the present value of the marginal product of labor to the present value of expenditures.
    B) allow W0 + Z - MP1 to be greater than zero.
    C) allow W1 to be greater than MP1.
    D) allow Z to be greater than W0.
15. The present value of a firm's earnings over two periods is equal to its earnings in the initial period plus the ________ value of its earnings in the next period, and will ________ as the interest rate rises.
   A) discounted; rise
   B) discounted; fall
   C) future; rise
   D) future; fall

16. General training is usually paid for by
   A) the employer.
   B) the employee.
   C) both the employer and the employee.
   D) neither the employer nor the employee.

17. Specific training is paid for by
   A) the employer.
   B) the employee.
   C) both the employer and the employee.
   D) neither the employer nor the employee.

18. After general training, the employee's wage will be
   A) equal to his or her marginal product of labor.
   B) greater than his or her marginal product of labor, due to the training received.
   C) less than his or her marginal product of labor, to pay for the cost of the training received.
   D) either greater or less than his or her marginal product of labor.

19. During a recession, average labor productivity tends to decrease because output falls and
   A) prices also fall.
   B) workers with specific training are not laid off.
   C) workers with general training are not laid off.
   D) neither workers with general training nor workers with firm-specific training are laid off.

20. A firm could profitably pay for a worker's general training if
   A) the worker could change jobs easily.
   B) the worker was nearing retirement.
   C) the training program would also serve as a screening device.
   D) the training increased the quasi-fixed costs of hiring the worker.

21. The use of an internal labor market implies that
   A) workers in lower-level jobs will become less motivated and less dependable.
   B) workers at the firm have no firm-specific training.
   C) most upper-level jobs will be filled by promoting current workers.
   D) the firm relies exclusively on credentials.

22. All else equal, a firm will prefer to hire a worker who will
   A) stay at the firm for a long period of time.
   B) stay at the firm for a short period of time.
   C) be willing to work only a limited number of hours.
   D) acquire firm-specific training from another firm.

23. Statistical discrimination is
   A) using statistics to judge the average characteristics of a group of workers.
   B) judging one person according to a group to which he or she belongs.
   C) using statistics in hiring.
   D) firing people due to low average productivity.
24. In Japan workers receive _______ rates of formal training than in the United States and this leads to _______ quit rates.
   A) higher; lower
   B) higher; higher
   C) lower; lower
   D) lower; higher

25. Training costs
   A) exclude opportunity costs of trainees' time.
   B) arise mostly from out-of-classroom training.
   C) exclude the opportunity cost of using capital equipment.
   D) exclude opportunity costs of trainers' time.