

## Answer on Question 63843 -Economics - Microeconomics

A perfectly competitive labor market where  $L_d$  represents the quantity of labor demanded,  $L_s$  the quantity of labor supplied and  $W$  the wage rate, is described by the following functions:

$$L_d = 200 - 2.5W$$

$$L_s = -70 + 5W$$

$$L_d = L_s$$

- What is the equilibrium wage rate in the market?
- How many workers will be employed?
- Suppose the government sets a minimum wage of 48 in the market. What will be the effect of introducing minimum wage?
- What was the wage bill before the introduction of the minimum wage?
- What will be the wage bill after the introduction of the minimum wage?

**Answer.**

- a. Equilibrium wage rate in the market is calculated from equation

$$200 - 2.5W = -70 + 5W$$

$$270 = 7.5W$$

$$W = 36$$

- b. Quantity of workers is

$$L = 200 - 2.5 * 36 = 110$$

- c. Introducing of minimum wage \$48 makes excess supply on the market (unemployment), at the rate of

$$-70 + 5 * 48 - (200 - 2.5 * 48) = 90 \text{ workers}$$

- d.  $36 * 110 = \$3960$

- e.  $48 * (200 - 2.5 * 48) = \$3840$

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