

107BM04
國立臺北科技大學 107 學年度碩士班招生考試

系所組別：4203 經營管理系碩士班

第二節 經濟學 試題 (選考)

第一頁 共二頁

注意事項：

1. 本試題共 5 題，每題 20 分，共 100 分。
2. 請標明大題、子題編號作答，不必抄題。
3. 全部答案均須在答案卷之答案欄內作答，否則不予計分。
4. 作答時可採用中文，解釋的部份請儘量輔以圖表或計算式說明。

1. For the following scenario, please choose your answer from (a-e) and then EXPLAIN. (20 points)

Jones owns a factory that is dumping toxic waste into a river where Smith owns a resort. At present, Jones is not filtering the water that he dumps into the river. There is a filter he could install that would remove a significant amount of the toxic elements from the water before it is dumped in the river. Jones and Smith have each assessed the situation and come up with the following data:

Table 1

Gains To	No Factory	Factory with Filter	Factory with No Filter
Jones	\$0/day	\$350/day	\$400/day
Smith	\$200/day	\$125/day	\$50/day

- (1) According to Table 1, If property rights over the river are assigned to **Smith**, then: (Choose your answer from (a-e), then explain.) (10 points)
- a. Smith will force Jones to close the factory.
 - b. Smith will pay Jones up to \$75 per day to install the filter.
 - c. Smith will pay Jones up to \$125 to install the filter.
 - d. Jones will install a filter and pay Smith at least \$75 per day.
 - e. Jones will install a filter.

- (2) According to Table 1, If property rights over the river are assigned to **Jones**, then: (Choose your answer from (a-e), and then explain.) (10 points)
- a. Jones will force Smith to close his resort.
 - b. Smith will pay Jones up to \$75 per day to install the filter.
 - c. Smith will pay Jones up to \$125 to install the filter.
 - d. Jones will install a filter and pay Smith at least \$75 per day.
 - e. Jones will not install a filter.

2. Refer to Figure 1, answer the questions and explain. (20 points)

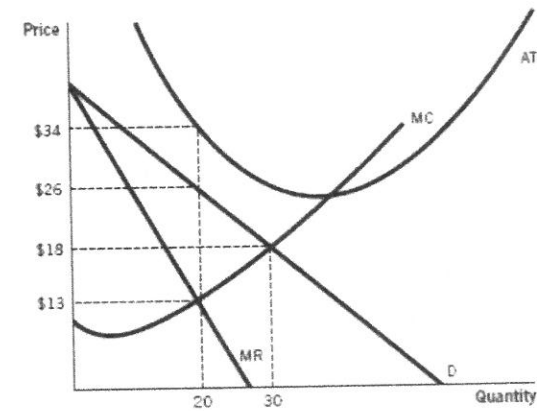


Figure 1

- (1) This firm: (Choose your answer from (a-e), and then explain.) (10 points)
- a. is in a competitive market.
 - b. can make a profit.
 - c. does not want to maximize profit.
 - d. cannot make a profit.
 - e. is not a monopoly because it is incurring a loss.
- (2) According to Figure 1, what is the total profit of this profit-maximizing firm? (10 points)

注意：背面尚有試題

3. Refer to Figure 2, answer the questions and explain. (20 points)

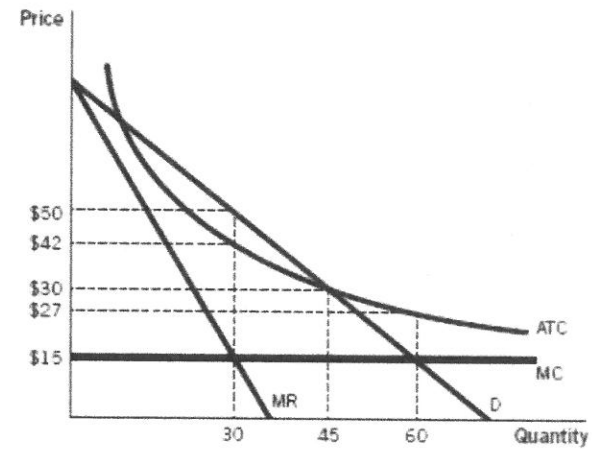


Figure 2

- (1) Refer to Figure 2, for a profit-maximizing firm without any price regulations, how much profits would this firm make? (10 points)
 - (2) Refer to Figure 2, if the government forces a firm to produce at the point that generates the greatest welfare for society, how much profits would this firm make? (10 points)
4. You have been doing some research on countries in Europe and Africa. You have observed that European countries are wealthier and that they have a higher percentage of workers who are college educated. Therefore, you conclude that sending more Africans to college will increase economic growth and wealth in Africa. Discuss the validity of this conclusion. (20 points)
5. Suppose that there is an excess supply of economics professors. Should universities necessarily reduce salaries? What does standard economic theory suggest? What does efficiency-wage theory suggest? (20 points)