

大同大學 九十二 學年度研究所碩士班入學考試試題

考試科目：經濟學

所別：事業經營研究所

全1頁

註：本次考試 不可以參考自己的書籍及筆記； 不可以使用字典； 不可以使用計算器。

1. Some economists warn that SARS disease could do more economic damage in Asia than the effects of the war in Iraq. Make a comment. **(15 points)**
2. A firm produces two products, X and Y. The technology displays the following costs, where $c(i, j)$ represents the cost of producing i units of X and j units of Y:

$$C(0,50)=100 \quad C(5,0)=150$$

$$C(0,100)=210 \quad C(10,0)=320$$

$$C(5,50)=240 \quad C(10,100)=500$$

Does this technology display economies of scale? Of scope? Justify your answer. **(15 points)**

3. Suppose that the demand function for the Johnson Company's all-weather coats is $Q_x^d = aP_x^b P_y^c P_z^e I^f$. Q_x^d is the quantity demanded per year (in thousands), P_x is the unit price of all-weather coats, P_y is the price of the rival firm's ski jacket, P_z is the price of the matching all-weather hat, and I is consumer's money income (in thousands of dollars).
 - a. Find an expression for the point elasticity of demand with respect to the good's own price. Provide an economic interpretation of your answer.
 - b. Find point estimates for the two cross-price elasticities and for the income elasticity of demand. Interpret your results. **(20 points)**

4. Fill out the table below, and then answer the following questions.

Q	TC	FC	VC	ATC	AVC	MC
0	8					
1	12					
2	14					
3	20					
4	30					
5	50					

- A. Suppose the firm is a price-taker. If the price is \$15 per unit, will this firm be earning economic profits? How much? What quantity will it produce?
 - B. What is the breakeven price? What is the shutdown price? **(20 points)**
5. What are the economic costs of the externalities caused by air toxins? Or beach closings? **(15 points)**
 6. Who is hurt and who is helped by an increase in the legal minimum wage? Under what circumstances might a higher minimum not reduce employment? **(15 points)**