編號: 385

國立成功大學 105 學年度碩士班招生考試試題

系 所:經濟學系 考試科目:個體經濟學

考試日期:0227, 節次:2

第1頁,共1頁

※ 考生請注意:本試題不可使用計算機。 請於答案卷(卡)作答,於本試題紙上作答者,不予計分。

1. (25%) Suppose the market of cooking oil is a perfectly competitive with demand function P(Q, a) where Q is the aggregate output of n symmetric firms each bearing the same cost function c(q) when producing q units, and a is a factor of demand reflecting consumers' worries in food security. Suppose

 $\frac{\partial P}{\partial a}$ < 0 so that increasing worries in food security will cause a decrease in demand. Also assume that $\frac{\partial P}{\partial a}$ <

- 0, c'(q) > 0, and c''(q) > 0.
- (a) (10%) Find the impact on **short run** market equilibrium of cooking oil from increasing worries in the safety issues, dP^*/da .
- (b) (15%) Find the impact on long run market equilibrium of cooking oil from increasing worries in the safety issues, dP^*/da .
- 2. (15%) Show that tax incidence on consumers is likely to exceed 100% in a monopoly market
- 3. (25%) Consider the consumer with utility function $u(x_1, x_2) = x_1 + \ln x_2$ and income w. Suppose the consumption of commodity 1 is subject to a specific tax of \$s\$ per unit while commodity 2 is subject to a specific tax of \$t\$. (Assume $w > P_1 + s$)
 - (a) (10%) Find the optimal consumption of the two commodities.
 - (b) (15%) Which commodity would be sensitive to the increase in the specific tax?
- 4. (15%) There are two countries A and B producing two goods X and Y. Suppose PPF of A is Y = 10 X while that of B is $Y = 10 X^2$. Find the joint PPF of the two countries and discuss its implication.
- 5. (10%) If a monopoly produces with **constant MC equal to \$18 and fixed costs \$10**, and faces a market demand as shown in the table. Suppose commodities must be sold in discrete units. Find the deadweight loss caused by the monopoly.

P	24	23	22	21	20	19	18	17
Q	1	2	3	4	5	6	7	8

6. (10%) Explain when and how it is likely to increase GDP by raising the minimum wage?