/、簡答題 (50points)

- 1. (5 points) Explain how assuming that people have finite lifetimes and do not care about their children breaks Ricardian equivalence.
- 2. (5 points) Take the Solow growth model and assume the economy is at the steady state ("stable equilibrium"). A natural disaster hits and some of the economy's capital is destroyed. Determine graphically the impact on the long-run quantity of capital per capita and output per capital.
- 3. (5 points) Suppose the marginal product of labor is MPN = 200 0.5N, where N is aggregate employment. The aggregate quantity of labor supplied is 300 + 8w, where w is the real wage. If a supply shock increases the marginal product of labor by 10 (to MPN = 210 0.5 N), by how much does employment increase?
- 4. (5 points) How many people are unemployed if the employment ratio is 75%, there are 90 million people employed, and there are 20 million people not in the labor force?
- 5. (5 points) Explain how the effectiveness of a monetary expansion depends on the degree of capital mobility if the central bank sterilizes reserve flows.
- 6. (15 points) Consider the following misperceptions model of the economy:

AD:
$$Y = 600 + 10 (M/P)$$

SRAS:
$$Y = \overline{Y} + P - P^e$$

Okun's Law:
$$(Y - \overline{Y})/\overline{Y} = -2.5(u - \overline{u})$$

Let
$$\overline{Y} = 750$$
, $\overline{u} = 0.05$, $M = 600$, and $P^e = 40$.

考試題隨卷繳交

命题委員

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考試科目似乎。確假你題的所別目打政考試時間以月子的日上年第一節星期日面

- a. What is the price level?
- b. Suppose there is an unanticipated increase in the nominal money supply to 800. What is the short-run equilibrium level of output, the unemployment rate, and the price level?
- c. When price expectations adjust fully, what is the price level?
- 7. (10 points) How well do you know about the economy of Taiwan?
 - (a) 消費者物價年增率 (請將提供的數據填入下列表格其所 對應的年份,全對才給分, -0.01%, -0.2%, 1.3%)

2000 年	2001 年	2002 年

(b)女性勞動參與率 (請將提供的數據填入下列表格其所對應的年份,全對才給分, 46.6%, 46.1%, 46.0%)

2000 年	2001 年	2002 年

- (c) (0.88, 0.12)、(0.78, 0.22)、及 (1.27, -0.27) 三組資料中, 何組資料代表我國 2001 年家庭的(邊際消費傾向,邊 際儲蓄傾向)? (,) 。
- (d) (US\$12572, US\$20877, US\$24014) 三個數據中,何者 代表我國 2002 年平均每人的 GDP? ______。
- (e) (5.8%, 5.17%, 4.4%) 三個數據中,何者代表我國 2002 年的失業率? _____。

借 考

試題隨卷繳交

考試科

別財政學系碩士班 考試時間

星期

立 政 治 大學國書館

= (50 points)

- 1. A firm producing output Y with the following production function, $Y = K^{\alpha} L^{\beta}$, where α , $\beta > 0$, K, L are the only two inputs. Assuming the market price for K, Lis r, w, respectively, and the firm is a competitive firm in the factor market:
 - (a) Derive a short run cost function and the long run cost function for this firm.
 - (b) If this is a competitive firm also in the output market, derive and explain the profit maximization conditions given the market price of Y is p, p>0.
 - (c) If this is a monopolist in the output market, derive and explain the profit maximization conditions. (30 points)
- 2. For the following four types of consumers all having M money income and facing P_i , i=1, 2, ..., n, commodity price for good i, first derive the individual demand function for each good, then explain the effect of an increase in P_i on the demand for good j, j = 1, 2, ..., n. (20 points)

(a)
$$U = \sum_{i=1}^{n} \alpha_{i} \log X_{i}$$
, $\alpha_{i} > 0$, $i=1, 2, ..., n$

(b)
$$U = \sum_{i=1}^{n} X_{i}$$

(c)
$$U = \sum_{i=1}^{n} X_i^2$$

(d)
$$U = \min\left(\frac{X_1}{a_1}, \frac{X_2}{a_2}, \dots, \frac{X_n}{a_n}\right), \quad a_i > 0, i=1, 2, \dots, n$$

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試 題 隨 交

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