科目:經濟學

准帶項	目詩	¥1 ∟Λ	<u>'</u>	
	簡單	型计算	模	
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 (5%) The Federal Reserve usually keeps the discount (a) equal to the target federal funds rate. (b) above the target federal funds rate. (c) below the target federal funds rate. (d) equal to zero. 	t rate
2. (5%) The amount of borrowed reserves is and is related to the market interest rate. (a) positively; negatively (b) positively; positively (c) negatively; negatively (d) negatively; positively	
3. (5%) An expansionary monetary policy lowers the redomestic currency to, thereby	eal interest rate, causing the net exports.
4. (5%) In a used car market, 25 percent of the cars are Buyers do not know if a car is a lemon or a gem, but set to pay 120 percent of seller's value for a car, and seller and \$2,000 for a lemon. In market equilibrium, (a) price is between 4,000 and 4,800, and deadweight It (b) price is between 4,000 and 4,800, and deadweight It (c) price is between 2,000 and 2,400, and deadweight It (d) price is between 2,000 and 2,400, and deadweight It	ellers know. Buyers are willing 's values are \$4,000 for a gem oss is zero. oss is positive. oss is zero.
5. (5%) The production function $Q = (X_1^{-1} + X_2^{-1})^{-1}$ yies the marginal rate of substitution in production of input the slope of the isoquant with X_1 on the vertical axis axis): (a) X_1/X_2 (b) $(X_1/X_2)^{1/2}$ (c) $(X_1/X_2)^2$ (d) -1	$2(X_2)$ for input $1(X_1)$ (that is
 6. (20%) Suppose the demand for cigarettes is Q = 15 cigarettes is Q = P - 3, where P is the price per pack government imposes a cigarette tax of \$3 per pack. (1) What is the price received by producers? (2) What is the price faced by consumers? (3) What is the government revenue from the tax? (4) What is the total dollar amount of tax revenue paid 	of cigarettes. Suppose the

淡江大學97學年度碩士班招生考試試題

系別:財務金融學系

科目:經

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准帶項目請打「V」 簡單型計算機 本試題共

7. (20%) Suppose two individuals, Perry and Jacky, are the only inhabitants of an island. Each individual has an endowment of 10 hours of labor (L) that is completely devoted to the production of yams (Y) and fish (F). These goods can be produced accordingly to the following production functions:

$$Y = 3L_{y}$$

$$F = 2L_{\rm F}$$

The utility functions of Perry and Jacky are given by:

$$U_{P} = Y_{P}^{0.5} \, F_{P}^{0.5}$$

$$U_J = Y_J^{0.3} F_J^{0.7}$$

Assuming that the wage rate is one, the island is a perfect competitive economy, and as in the case of the Robinson's island that every morning there will be three individuals come from a neighbor island to be the managers of the firms and the auctioneer (the salaries of the three individuals are covered entirely by external grants).

- (1) Write out the equation for the production possibilities frontier of this economy.
- (2) Find the prices of Y and F.
- (3) Find the quantities of Y and F demanded by Perry and Jacky.
- (4) What will be the allocation of labor on Y and F?

8. (15%) The Phillips curve for the Simpleland is

$$\dot{P}(U) = \frac{0.0012}{U - 0.03} - 0.02$$
And for the Econoland is

And for the Econoland is

$$\dot{P}(U,\dot{P}^e) = \frac{0.0012}{U - 0.03} - 0.02 + \dot{P}^e$$

Where P is the rate of inflation, Pe is the expected rate of inflation and U is the unemployment rate.

- (1) What is the full-employment rate of unemployment (i.e., the inflation-threshold unemployment rate) in Simpleland?
- (2) What is the natural rate of unemployment in Econoland?
- (3) What is the significance of the difference between the two alternative formulations of the Phillips Curve?
- 9. (20%) Suppose the production function is $Y = Y_1 Y_2 = X_3 + X_4 = X_4 + X_5 = X_4 + X_5 = X_5 = X_5 + X_5 = X_5$ rate of depreciation is 0.1. Both labor force growth and technological growth are zero. Denote k = K/L as the ratio of capital to worker.
- (1) What is k*, the steady-state value of k?
- (2) If L = 1000, what is the steady-state value of total output (Y)?
- (3) What is the Golden Rule level of k'?
- (4) What saving rate will produce that Golden Rule level of k'?

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