第二節

(第/頁共/頁)

經濟學 試題

(限用答案本作答)

## 注意:可使用計算機

- 1. (40%) Following are True/False questions. If the statement is true, please mark "O" on the sheet; if not, please mark "X" and correct it.
  - (1) A country's GDP is always less than GNP in that country.
  - (2) When an economy is under full employment, the unemployment rate is zero.
  - (3) The Laffer curve implies that higher tax rate does not necessarily produce higher taxes for the government.
  - (4) The equation:  $ln(M^d)=3.1+1.04ln(Y)-0.04(I)$  is more closer to the liquidity trap situation than the equation:  $ln(M^d)=4.5+1.09ln(Y)-0.27(I)$
  - (5) The labor supply curve will move to the left if people expect the price level to increase.
  - (6) Money is not neutral in the IS-LM Keynesian model.
  - (7) If the demand function is  $Q = aP^{-1}$  where a is a constant, then the value of demand elasticity is less than 0.5.
  - (8) If the price elasticity of supply is zero, the supply curve is a horizontal line parallel to the quantity
  - (9) A monopolist can apply the price discrimination policy for increasing profit.
  - (10) Moral hazard occurs after an agreement or contract has been made.
- 2. (20%) Interpret Liquidity Trap and Investment Trap by words and graphs. Do the monetary and fiscal policies work under each of two situations?
- 3. (25%) The following function of prices and utility is proposed as an expenditure function for some consumer:

$$E(P_1, P_2, u) = \left[u(P_1P_2 + P_2^2)\right]^{\frac{1}{2}}$$

- (1) Verify that the function defined above satisfies all the conditions of being an expenditure function.
- (2) Derive the Hicksian demand system via Shephard's Lemma.
- 4. (15%) Consider the following cost minimization hypothesis with x<sub>i</sub>'s and w<sub>i</sub>'s being production inputs and their prices respectively:

$$\begin{cases} \min imize & w_1x_1 + w_2x_2 = C \\ subject to & \alpha_1x_1^{\rho} + \alpha_2x_2^{\rho} = y^{\rho} \end{cases} \text{ where } \alpha_1 + \alpha_2 = 1$$

Please find the input demands and the cost function.

試題完