編號: 386

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 考試程:物體經濟

考試科目:總體經濟學

第1頁,共2頁

考試日期:0227, 節次:3

- ※ 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. Specify a simple aggregate demand schedule: AD: m+v=p+y. Using the natural logarithms of the indicted variables, m is the money supply; v is velocity and is assumed to be constant; p is the price level; and y is GDP. Specify a simple short-run aggregate supply, one that emphasizes the role of price expectations: p = p^e + λ(y-y*); p^e is the expected price level and y* is potential GDP; λ is a parameter and presents the slope of the aggregate supply curve. Please answer the following questions:
 - (1) Find the equilibrium output and price in our model economy. (10%)
 - (2) Assume that the slope of the aggregate supply is 2/3; that the values of the money supply, velocity, and potential GDP are 9, 8, 7, respectively; and that the expected price level is 5. Forecast both the price level and the level of output. (6%)
 - (3) Evaluate your forecast in light of the Lucas critique. (4%)
 - (4) How does this forecast differ from that which would result from a perfect-foresight model?(4%)
 - (5) Is this forecast better or worse? Explain. (3%)
 - 2. (1) Determine the optimal strategy for cash management for a person who earns \$1600 per month, can earn 0.5 percent interest per month in a savings account, and has a transaction cost of \$1. (4%)
 - (2) What is the individual's average cash balance? (3%)
 - (3) Suppose income rises to \$1800. By what percentage does the individual's demand for money change?(3%)
 - 3. Suppose that 70 percent of a country's population, as a consequence of liquidity constraints, behaves in accordance with the traditional model of consumption and thus consumes, every period, a given fraction of its disposable income. The other 30 percent of the population behaves in accordance with the Life-cycle theory and permanent income hypothesis (LC-PIH).
 - (1) If the marginal propensity to consumption (MPC) in the traditional model is 0.8 and disposable income changes by \$10 million (you may assume that this change is due entirely to a change in transitory income), by how much will consumption change? (7%)
 - (2) What if 70 percent of the population behaves in accordance with the LC-PIH, and 30 percent behaves in accordance with the traditional model? (7%)
 - (3) What if 100 percent of the population behaves in accordance with the LC-PIH. (6%)

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- 4. Consider a two-sector model of growth, with two kinds of investment opportunities-one with a diminishing marginal product and one with a constant marginal product.
 - (1). What does the production function for this problem look like?(10%)
 - (2). Characterize the set of equilibria for this model. Does output in any of the equilibria have nonzero per capita growth?(8%)
 - (3). What can this model help us explain that strict endogenous and neoclassical growth models cannot?(7%)
- 5. "If wages are rigid, then the government can easily reduce inflation without creating higher unemployment." Comment on this statement. (18%)