編號: 23

國立成功大學 102 學年度轉學生招生考試試題

共1頁,第1頁

系所組別:會計系、交管系、經濟系

考試科目:經濟學

考試日期:0714, 節次:4

※ 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. Consider how unemployment would affect the Solow growth model. Suppose that output is produced according the production function $Y = K^{\alpha}[(1-u)L]^{1-\alpha}$, where K is capital, L is the labor force, and u is the unemployment rate. The national saving rate is "s", the labor force grows at rate "n", and capital depreciates at rate " δ ". (20%)
 - 1a) What is the per worker production function? How does it depend on the unemployment rate? (5%)
 - 1b) Calculate the steady-state level of capital per worker. How does an increase in the unemployment rate affect this value? (10%)
 - 1c) Illustrate graphically the effects on the steady-state value of capital per worker of a positive unemployment rate as opposed to zero unemployment. (5%)
- 2. Please explain the following terms (10%)
 - 2a) Balanced Budget Multiplier
 - 2b) Quantity theory of Money
- 3. If Petroleum exporting countries decide to increase the prices of petroleum, please use AS-AD model to analyze the short run impact and long-run equilibrium on the economy. Can you stabilize the economy to keep prices constant [What kind of policy (fiscal or monetary policy) would you use]? (20%)
- 4. Assume Mary has the utility function u(A,B)=3A+5B, where A and B are the numbers of apples and bananas, respectively. Suppose her income is 500 and the prices of apple and banana are p and q, respectively. Find her optimal consumption bundle(s). (15%)
- 5. There are only two consumers in a market and their demand curves are p=10-q and p=16-2q respectively, where p is the price and q is the quantity of the good. Assume the market supply curve is p=6+q. Find the total demand curve and equilibrium price and quantity. (15%)
- 6. Assume John has the utility function u(A,B)=AB, where A and B are the numbers of apples and bananas, respectively. Explain your answers of the following problems. (20%)
 - 6a) Does John's preference satisfy the property of "more is better"? (5%)
 - 6b) Does John view apple and banana as perfect complements? (5%)
 - 6c) Assume the price of apple decreases. Are the substitution and income effects positive? (10%)

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