國立成功大學 112學年度碩士班招生考試試題

編 號: 332

系 所:經濟學系

科 目:總體經濟學

日期:0206

節 次:第3節

備 註:不可使用計算機

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※ 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。

Problem 1 (50%) 單選題

- 1. (5%) What is the superneutrality of money?
 - A) A one-time change in the money supply has no real impact.
 - B) A one-time change in the money supply has a real impact.
 - C) A change in the money growth rate has no real impact.
 - D) A change in the money growth rate has a real impact.
 - E) None of these.
- 2. (5%) According to Robert Solow's growth accounting, a change in aggregate output is attributed
 - A) to its most important single cause.
 - B) separately between changes in government policy and changes in total factor productivity.
 - C) separately between changes in total factor productivity and changes in the supplies of factors of production.
 - D) separately between changes in the supplies of factors of production and changes in government policy.
 - E) to increasing return to scale.
- 3. (5%) The implication of rational expectations is
 - A) that consumers make systematical mistakes.
 - B) that in models with aggregate supply shocks, consumers and firms always correctly forecast inflation.
 - C) that the central bank always foresees the impacts of monetary policy.
 - D) that the consumers and firms in models do the best they can in forecasting future economic variables.
 - E) none of these

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- 4. (5%) Which of the follows can justify an active role for government in stabilizing the economy?
 - A) Consumers are not rational and that not all wages and prices are flexible.
 - B) Not all wages and prices are flexible and that government must be able to react quickly enough.
 - C) Government must be able to react quickly enough and that shocks to the economy be primarily due to aggregate supply shocks.
 - D) Shocks to the economy be primarily due to aggregate supply shocks and that consumers are not rational.
 - E) All of these.
- 5. (5%) If a consumer faces a borrowing rate that is greater than the lending rate in a two-period model, then
 - A) the budget constraint has a kink at the endowment point.
 - B) banks cannot make a profit.
 - C) the consumer must be a lender.
 - D) this makes no difference for consumer behavior.
 - E) none of these.
- 6. (5%) The Diamond-Dybvig model provides an account of
 - A) bank runs
 - B) currency attack
 - C) the role for deposit insurance
 - D) the role for a central bank
 - E) the lender of last resort

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- 7. (5%) Addams believes that the inflation in this year will be around 9% because it was around 9% in the previous year. Addams can be said to have:
 - A) composite expectations.
 - B) marginal expectations.
 - C) rational expectations.
 - D) adaptive expectations.
 - E) none of these
- 8. (5%) Which of the following is the most powerful argument for putting restraints on central banks
 - A) time inconsistency
 - B) uncertainty about future inflation
 - C) uncertainty about the timing of policy impacts
 - D) disagreements about the proper structure of an econometric model
 - E) all of these
- 9. (5%) In an open economy under flexible exchange rates, a reduction in the interest rate will cause a reduction in which of the following?
 - A) Investment
 - B) Value of domestic currency
 - C) Net exports
 - D) All of these
 - E) None of these
- 10. (5%) Suppose that financial market participants expect that the central bank will pursue a monetary expansion in the future. Also assume that the yield curve is initially upward sloping. Given this information, we would expect which of the following to occur?
 - A) The yield curve will become steeper.
 - B) The yield curve will become flatter.
 - C) The yield curve will become horizontal.
 - D) The yield curve will become downward sloping.
 - E) None of these

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Problem 2 (30%)

Consider a small open economy where a representative agent lives for two periods with utility given by

$$\frac{C_1^{1-\frac{1}{\sigma}}}{1-\frac{1}{\sigma}} + \beta \frac{C_2^{1-\frac{1}{\sigma}}}{1-\frac{1}{\sigma}}, \quad \sigma > 0,$$

where $\beta \in (0,1)$ represents the discount factor, and C_1 and C_2 denote consumptions in period 1 and 2, respectively. There is no production activity while the individuals receive an exogenous endowment for each period, (Y_1, Y_2) . Let B_t be the foreign bond at the end of period t-1, and r denotes the world interest rate. Assume that $B_1 = 0$.

- a. (5%) Write down the two period-by-period budget constraints and the intertemporal (life-time) budget constraint.
- b. (5%) What is the Transversality condition in this two-period model?
- c. (5%) Under what conditions will the current account for period 1 (CA_1) be positive?
- d. (5%) How does an increase in β affect CA_1 ? Provide an economic interpretation.
- e. (5%) Calculate the equilibrium interest rate under autarky, denoted by r^A .
- f. (5%) How do changes in Y_2 affect r^A ? Provide an economic intuition to explain you findings.

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Problem 3 (20%)

Consider an unemployed worker who receives one job offer on the following terms. Each period, with probability π the worker receives an offer with wage a. With probability $1-\pi$ he or she receives an offer with wage w which is drawn from a cumulative distribution function F(w), with F(a) = 0, F(b) = 1 for $a < b < \infty$. Successive drawings across periods are independently and identically distributed. The worker can choose to accept or reject the offer. However, it is a permanent contract and neither quitting nor firing is permitted. Once the worker accepts the offer, he or she receives a wage w per period forever. If the worker rejects the offer, he or she receives c in the current period and draws another offer next period. Let y_t be the worker's income in period t. The worker maximized his/her expected discounted utility given by

$$E\sum_{t=0}^{\infty}\beta^t y_t,$$

where $\beta \in (0,1)$.

- a. (10%) Derive the equation which characterizes the optimal solution of the unemployed worker.
- b. (10%) What will the reservation wage change when π increases? Provide intuition and explain.