

淡江大學 101 學年度碩士班招生考試試題

系別：產業經濟學系
經濟學系

科目：總體經濟學

考試日期：2月26日(星期日) 第4節 (英文題可以中文作答) 本試題共三大題，計2頁

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1.(30%) Suppose that the economy's production function is

$$Y = \sqrt{K} \sqrt{AN}$$

where Y is output, K is capital, A indicates the state of technology and N is labor. The saving rate (s) is equal to 12% and that the rate of depreciation (δ) is equal to 8%. Further, suppose that the number of workers grows at 1% per year and that the rate of technological progress is 2% per year.

a. Find the steady-state values of:

- (1) The capital stock per effective worker.
- (2) Output per effective worker.
- (3) The growth rate of output per effective worker.
- (4) The growth rate of output per worker.
- (5) The growth rate of output.

b. Now suppose that the rate of technology progress is still equal to 2% per year, but the number of workers now grows at 3% per year. Recompute the answer to part (a). Are people better off as figured in part (a) or in part (c)? Explain.

2.(20%) Suppose that a person's wealth is \$75,000 and that her yearly income is \$100,000. The only choice she can make is to decide how to allocate the wealth between money and bonds. Also suppose that her money demand function is given by

$$M^d = Y(0.25 - i)$$

- a. Derive the demand for bonds. Suppose the interest rate, i , increases by five percentage points. What is the effect on the demand for bonds?
- b. What are the effects of an increase in wealth on money and on bond demand? Explain in words.
- c. What are the effects of an increase in income on money and on bond demand? Explain in words.
- d. "When people earn more money, the obviously will hold more bonds." What is wrong with this statement?

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3. 是非題 (50%)

以下題目中，對的請答“是”，錯誤請答“否”，並加以解釋。

(※若答案為否，無解釋將不與計分。)

- (a) 經濟體系若達到充分就業，則表示經濟體系中完全沒有失業存在。
- (b) 經濟體系中若出現流動性陷阱，表示貨幣市場均衡線(LM線)與總合需求線(AD曲線)均呈現水平的形狀，且財政政策無法影響總合需求。
- (c) 停滯性通貨膨脹指的是，供給面減少的變動，帶來產出減少與物價上升的雙重不利後果。
- (d) 在浮動匯率制度之下，中央銀行將他所持有的本國資產與其持有的外國資產做一反向調整的動作，稱為沖銷操作。
- (e) 在浮動匯率制度之下，中央銀行所擁有的外匯存底將會隨市場變化而變動。