元智大學 102 學年度研究所 碩士班 招生試題卷

理碩士班

管理學院經營管 組別:

國際企業碩士學

程

科目: 經濟學

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請務必在答題紙構明所答題號為[1],(2),...,(5],,並依此題號順序作答,只常提供答案即可,不需提供計算過程。

I. Microeconomics (50 points)

A. 填空題第(1),(2),...,(26)格,餘括號內有特別註明分數者外,其餘每格 2 分,共計 50 分。

Suppose Canon Inc. decided to invest 45 billion yen in developing and launching a new model of its digital camera, expecting that it will bring additional sales of 60 billion yen. The company has already invested 38 billion yen when the marketing department suddenly finds out that the introduction of a similar camera by Sony will reduce Canon's expected additional sales project. Canon hires you as an economic consultant. So, think like an economist to help the company's management make their decision:

year) 320 240 30 80 40 80 160

a) With the subsidy, the price that consumers pay is ____(6)__, the price that sellers receive is ____(7)

a) With the subsidy, the price that consumers pay is 6, the price that sellers receive is 7, and 8, gallons of gas are sold.

By this price that sellers receive is 7, and 8, gallons of gas are sold.

C) And dead weight loss for the whole economy is 111.

One year ago, Ms. Case and Mr. Bond opened a book store called C&B Bookstore. They invested \$1,000,000 of their savings into the partnership to buy equipment and initial inventory. They rented a building for \$90,000 a year, and hired two employees for an annual wage of \$40,000 each. Case and Bond believed that the best alternative investment of their money would be government bonds, which could yield an annual return of 8 percent. To run the store, Case quit her previous job, at which she earned \$100,000, but her former boss told her that she was welcome to return anytime. Bond keep this job with the government, but gave up 6 hours of leisure each week (for 50 weeks), the time he used to spend playing golf. Bond used to say: "I'd only give up my golf time if someone paid me \$100 an hour." During the first year of operation, C&B paid \$20,000 for utilities and the firm's total revenue was \$350,000. The market value of C&B is equipment was \$200,000 at the beginning of the year and \$170,000 at the end of the year.

a) The explicit costs of C&B Bookstore is 12), and implicit costs is 13.

b) The conomic depreciation of their capital is 14.

c) The firm's economic profit in the first year of operation is 15.

Anna's Farm produces and sells milk. The market for milk is perfectly competitive. The market price of milk is \$2.50 per gallon. The relationship between the farm's output and total costs is shown in the table below. Use these given information to calculate Anna's average variable, average total, and marginal cost and try to draw those curves. After you done that, use those curves to answer the following questions:

Quantity (gallons per day)	Total cost (dollars per day)	
0	400	
100	703	
200	880	
300	1,008	
400	1,160	
500	1,410	
600	1,910	

a) If Anna maximizes her profit, her output is (16). Under that output, her profit/loss would be (17). b) If the market price is equal to (18), Anna will shut down her production.

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6. Nimbus, Inc., and Clean, Inc. are the only producers of flying brooms. Each firm has two strategies: Spend 30,000 dollars a year on research and development (R&D) or spend nothing on R&D. If neither firm spends on R&D, Nimbus' economic profit is 80,000 dollars and Clean's economic profit is 40,000 dollars. If each firm conducts R&D, market shares are maintained, but each firm's profit is lower by the amount spent on R&D. If Nimbus conducts R&D and Clean's does not, Nimbus makes an economic profit of 120,000 dollars, while Clean incurs an economic loss of 20,000 dollars. If Clean Inc. con-ducts R&D and

Nimbus does not, Cleans Inc. makes a profit of 60,000 dollars while Nimbus loses 10,000 dollars. In Clean line: concludes R&D and a) In the Nash equilibrium, Nimbus, Inc., will get 19 profit and Clean, Inc., will get 20 profit.

The table below shows costs, private benefits of students, and social benefits arising from college education. There is no government involvement and the schools are competitive.

Enrollment (millions of students per year)	Marginal social cost (thousands of dollars per student per year)		Marginal external benefit (thousands of dollars per student per year)
4	4	16	8
8	6	14	7
12	8	12	6
16	10	10	5
20	12	8	4
24	14	6	3

a) The market equilibrium enrollment is (21) and the tuition is (22)

b) Considering social benefit of education to the whole society, the efficient level of enrollment is (23). Hence, the deadweight loss of the competitive market is (24).

c) If the government provides the efficient amount of education, of the total tuition paid by a student, the government

(25) and a student pay (26)

II. Macroeconomics (50 points):

B. 單選題第(27),(28),...,(46)格,每格2分,共計40分。

According to the light signals announced by Council for Economic Planning and Development (經費會) based on monitoring
indicator for Taiwan economy, the light colors from November, 2011, to August, 2012, are all blue (incredibly 10-succession
blues). Afterwards, the color has turned into yellow-blue for months (at least, till November) in the end of 2012, which meant

that Taiwan economy, for that time, was 22T (a) Only just under recession; (b) Only just recovering from the extraction (c) About to fail into recession; (d) About to be overheated. (e) A little bit cool down from overheated.

2. In addition to light signals, Council for Economic Planning and Development also regularly announces the composite indicators for Taiwan economy, including leading indicators, coincident indicators, and lagging indicators. As for the respective component series, which of the following items should be classified as a "lagging" indicator?

[28] (a) Stock prices index; (b) Unemployment rate; (c) Industrial production index; (d) Electric power consumption; (e) Monetary aggregate (M1s).

A flet the serious impact of 2008 global financial crists tha US authorities conducted the pull become "Constitution Engine

- prices index; (b) Unemployment rate; (c) Industrial production index; (d) Electric power consumption; (e) Monetary aggregate (ML).

 3. After the serious impact of 2008 global financial crisis, the U.S. authorities conducted the well-known "Quantitative Easing Policy", which called QB1, QB2, and even QB3 (just amounced in 13 September 2012). Essentially, these measures are nothing but expansionary monetary policies under the circumstances when (29) approaches the "zero lower bound". (a) Federal funds rate; (b) Corporate bond rate; (c) Discount rate; (d) 10-year treasury bound rate; (e)Mortgage loan rate.

 By definition, the "international balance" requires (30) (a) The balanced trade; (b) Zero unemployment rate; (c) The full employment output; (d) Zero inflation rate; (e) None of the above.

 5. Which of the following currency have the "largest" absolute value of currency nowadays? (31) (a) New Taiwan Dollar; (b) Singapore Dollar; (c) Hong Kong Dollar; (d) Thilliand Baht; (e) Euro.

 6. If inflation is greater in Korea by 10% than it is in the rest of the world, then the purchasing power parity (PPP) theory predicts that the (32) (a) Korean won would appreciate; (b) Korean won would depreciate; (c) Korean won would are main stable; (d) U.S. dollar would weaken; (e) Korean products must have real appreciation.

 7. The so-called Okur's law is an empirically observed negative relationship between (33) (a) Inflation rate and interest rate; (b) GDP and net exports; (c) Inflation rate and exchange rate; (d) Unemployment rate and real output gap; (e) Unemployment rate and job vaccancy rate.

 8. Which of the following account should be included in M1_A, by the definition of Taiwan's central bank? (34) (d) Demand awing deposit; (b) Foreign currency deposit; (c) Time deposit; (d) Currency held by the public; (e) Mutual fund.

 9. Which of the following situation may push the LM curve to the "left"? (35) (a) The invention of ATM or credit card; (b) Expansionary monetary policy taken by central bank; (c) An increase in the in

- (e) Government budget

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 13. Saudi Arabia sent petroleum to Taiwan in exchange of U.S. dollars. In Taiwan, this will lead to 41 ... (a) No change in the current account; (b) A merchandise trade deficit; (c) A balance of payments deficit; (d) A Financial account deficit; (e)

C. 滇空題(47),(48),...,(51)·如有必要,答案請四拾五入至小數點以下第二位,或以分數型式表示,每格2分,共計10分。

Let's take a look at a small and simplified open economy model, where C, I, G, X, M represent the consumption, investment, government spending, exports and imports of that economy, respectively. Among these variables, assumed that investment, government spending and exports are all exogenous, namely $I=\overline{I}$, $G=\overline{G}$, and $X=\overline{X}$. Besides, consumption and import function can be expressed as followed (Y denotes the domestic income):

$$C = \overline{C} + cY$$
 $M = \overline{M} + mY$

Where \overline{C} and \overline{M} denote the autonomous consumption and imports, while c and m represent the marginal propensity to consume and import. Moreover, following information is also given:

$$\overline{C} = \overline{I} = \overline{G} = 40$$
, $\overline{X} = \overline{M} = 30$, $c = 0.7$, $m = 0.2$

- a) According to the above setting, the equilibrium income (Y) should be ____(47)___, and the trade balance (TB=X-M)
- should be (48), and the trace balance (18-X-bi) should be (47), and the trace balance (18-X-bi) should be (48), and the trace balance (18-X-bi) b) Instead of exogenous design of exports and imports. This time, consider the influence of exchange rate on the trade balance. Let E represent the real exchange rate (1 unit of domestic product can be converted into E units of foreign products), hence the increase (decrease) in E implies the real appreciation (depreciation) of that economy. More concretely, exports and imports function are now replaced by:

$$X = \overline{X}' - uE$$
, $M = \overline{M}' + mY + vE$,

- Where \overline{X}' =80, \overline{M}' =20, u=v=20, and E=2 (Besides, all other settings are unchanged). Therefore, the new equilibrium
- Where A = 80, M = 20, and E=2 (Bestoes, an other settings are unchanged). Increase, the new equinormal income (Y) should be (49), and the corresponding trade balance (TB=X-M) should be (50) c) Continued to the sub-question (5), assumed that purchasing power parity (PPP) finally holds. In other words, it means that the economy should experience a real depreciation, says, E decrease from 2 to 1. At that time, the economy should have a (51) (A) Trade surplus; (B) Trade deficit; (C) Balanced trade.