

1. (10 分) 在委託代理問題(the principal-agent problems)上, 委託人要考慮代理人的個人理性約束(the individual rationality constraint)以及誘因相容限制(the incentive compatibility constraint)的問題, 請問:
  - a) 這兩個限制條件的經濟意義是什麼? (5 分)
  - b) 試舉實例說明之。(5 分)
2. (10 分) 解釋名詞:
  - a) moral hazard (5 分)
  - b) adverse selection (5 分)
3. (10 分)
  - a) 何謂外部性(externalities)? (5 分)
  - b) 生產面的負外部性的解決之道有哪些? (5 分)
4. (10 分)
  - a) 公共財(public goods)的兩大特徵是什麼? (5 分)
  - b) 公共財配置的效率條件與私人財配置的效率條件有何不同? (5 分)
5. (10 分) 請寫出以下賽局的均衡策略組合。

		Player 2	
		C	D
Player 1	C	-8, -8	0, -10
	D	-10, 0	-1, -1

6. (30 pts) A quadratic profit function  $\pi(Q) = hQ^2 + jQ + k$  to be used to reflect the following assumptions:
  - (a) (10 pts) If nothing is produced, the profit will be negative;
  - (b) (10 pts) The profit function is strictly concave;
  - (c) (10 pts) The maximum profit occurs at a positive output level.
 What parameter restrictions are called for?
7. (20 pts) A monopolist faces a competitive fringe at  $P_0$ , where  $P_0 > P_c$ . (By definition, a competitive fringe is willing to supply any demand at price  $P_0$  but supplies nothing for a lower price.)  $P_c$  is the competitive price. Please use a graph to illustrate the demand curve and the optimal two-part tariff.

## 國立中山大學99學年度碩士班招生考試試題

科目：總體經濟學【經濟所碩士在職專班】

1. (25%) 假設目前市場利率為 2%，央行有意調整存款準備率從 10%至 12.5%，請問下列問題
- (7%)A. 貨幣供給應該如何變化？(請作圖與解釋)
- (9%)B. 如果民眾預期利率應該調升二碼至 2.5%，可是市場利率變成 2.75%，請問市場中有哪些人因此受惠？為何受惠？
- (9%)C. 如果保持其他狀況不變，請問新台幣匯率如何變化？
2. (25%) 根據購買力平價定則 (Purchasing power parity, PPP)，回答下列問題
- (12%)A. 為何 PPP 在某些商品會成立？請說明論點並舉例
- (13%)B. 請試述 PPP 不可能成立的原因
3. (25%) 近年來失業率自 2.5%攀升至 4.65%左右，政府相關單位擬持續推動擴大就業方案及增加公共支出，請以總合供給與需求模型分析下列問題 (請作圖與解釋)
- (12%)A. 擴大公共支出導致就業人口，總體價格如何變化？
- (13%)B. 就長期而言，總體價格與自然失業率如何變化？
4. (25%) Because of global warming issue, the United States is considering to levy carbon tax to prevent imported goods if they are not produced through green energy or process. Please use graph(es) to analyze price of Taiwanese exported goods, consumer and producer welfare, and possible dead-weight loss.