系所別:

財務金融學系列2丙組 科目:

經濟分析

【1】下表顯示王先生與邵小姐的財富效用:

財富	王先生的 財富效用	邵小姐的 財富效用
0	0	0
\$100	200	512
\$200	300	640
\$300	350	672
\$400	375	678
\$500	387	681
\$600	393	683
\$700	396	684

- (a) 王先生或邵小姐中的那一位更有可能去買保險?為什麼?(7%)
- (b)若是王先生與邵小姐各有\$400 投資在一項計劃,此計劃有 85%的機率能夠得到 \$600,而有 15%的機率能夠得到\$200,兩人中的那一位會投資? (7%)
- 【2】本題與貨幣需求的實証研究有關。

倘使貨幣需求方程式為: $L=ky+hi+\lambda W$ 

在此L為貨幣需求,y為所得,i為市場利率,W為財富,k、h、 $\lambda$ 俱為正值的參數。

- (a) 試問你會如使估算參數k、h與 $\lambda$ ?詳述你如何取得數据資料、時間序列的頻率、與迴歸方程式。(7%)
- (b)倘使社會大眾的貨幣需求對利率變動反應遲緩,你會如何修正上述方程式? (7%)
- (c)倘使我們將上面的貨幣需求方程式修改為:L=ky+hi。試比較這個程式與原來程式在做實証研究方面的優缺點。(6%)
- 【3】近兩年來,美國聯準理事會多次調降利率,企圖以此來刺激景氣,而市場利率更是降至超低水平,銀行存款的掛牌利率已跌破2%,報章雜誌上一再出現"我國將步上日本後塵,零利率時代即將來臨"等字句。請問:
  - (a)在那些假設下,以寬鬆的貨幣政策刺激景氣方才有效?以總供給(aggregate supply)與總需求(aggregate demand)曲線圖示之。(4%)
  - (b)"零利率"究竟是指名目利率或實質利率?名目利率與實質利率的區分何在?在 通貨緊縮時期,名目利率與實質利率孰大孰小?(4%)
  - (c) 過去近一百年,美國的實質利率大約是有分之多少?(4%)
  - (d)我國是否將會步上日本後塵,發生零利率時代?試分析之。(4%)
- [4] There are two identical firms (firm A and firm B) in the market, and each has a cost function TC = 2+Q. The market demand is Q = 13 P. If they cooperate and collude, they will set the same price, and split the market demand equally. If a firm sets a price slightly lower than the other, it takes the whole market share. Firm B threats Firm A that if he will corporate, but if Firm A cheats once, then Firm B will set a price such that both earn zero profit for the rest of the game (this is called a "triggering" strategy in game theory). Now, suppose the game will be played infinitely, and suppose that the interest rate for each period is k%.
  - a. (10%) What will be the market price and the per-period profit for each firm?
  - b. (20%) Derive the condition such that Firm A will conform to the agreement.
- [5] (20%) Suppose the demand for pizza in a small isolated town is P = 10 -Q.

  There are only two firms, A and B. Each has a cost function TC=2+Q.

  Determine the equilibrium quantities of each if firm A is the Stackelberg leader.

