

*注意：請依題號順序作答於答案紙上，不必抄題目

- (10%) 1. (1) (a) Find the reduced form of the following income determination model where investment is not autonomous but is a function of income. (b) Find the numerical value of the equilibrium level of income (Y_0).

$$Y = C + I \quad C = C_0 + bY \quad I = I_0 + aY$$

where $C_0 = 65$, $I_0 = 70$, $b = 0.6$, and $a = 0.2$.

- (5%) (2) Find the equilibrium level of income when $S = -70 + 0.25Y_d$, $Y_d = Y - T$, $I = I_0 = 40$, $G = G_0 = 30$, and $T = T_0 = 20$.

- (7.5%) 2. 解釋名詞：

- (1) 看不見的手
- (2) GNP平減指數
- (3) 柏雷托最適境界
- (4) 差別訂價
- (5) 季芬財

- (7.5%) 3. The Hand Tool Manufacturing Industry Trade Association recently published the following estimates of demand and supply relations for hammers:

$$Q_D = 60,000 - 10,000P, \quad (\text{Demand})$$

$$Q_S = 20,000P. \quad (\text{Supply})$$

- A. Calculate the perfectly competitive industry equilibrium price/output combination.
- B. Now assume that the industry output is organized into a cartel. Calculate the industry price/output combination that will maximize profits for cartel members.

- (7.5%) 4. (1) Recently, the Irvine Cinema reduced ticket prices for afternoon "early bird" shows from \$5 to \$3 and enjoyed an increase in sales from 60 to 180 tickets per show. Buttered popcorn sales per show also increased from 30 to 150 cups.

- A. Calculate the arc price elasticity of demand for movie tickets.
- B. Calculate the arc cross-price elasticity of demand between buttered popcorn and ticket prices.

- (7.5%) (2) B. B. Lean is a catalog retailer of a wide variety of sporting goods and recreational products. Although the market response to the company's spring catalog was generally good, sales of B. B. Lean's \$140 deluxe garment bag declined from 10,000 to 4,800 units. During this period, a competitor offered a whopping \$52 off its regular \$137 price on deluxe garment bags.

- A. Calculate the arc cross-price elasticity of demand for B. B. Lean's deluxe garment bag.
- B. B. B. Lean's deluxe garment bag sales recovered from 4,800 units to 6,000 units following a price reduction to \$130 per unit. Calculate B. B. Lean's arc price elasticity of demand for this product.

- (7.5%) 5. 如果在政府開放下，台灣大量至中國大陸投資，你覺得這將對台灣的重要總體經濟變數（例如失業率，工資水準，GNP，GDP，國際收支，貿易餘額，房地產價格，新台幣匯率，股市，物價上漲率...等）產生什麼影響？其原因何在？請加以分析之。