科目：經濟學
考試時間： 100 分鐘

系所：
統計學研究所（風險管理組）是否使用計算機：否

I．Carefully evaluate following statements．
1．Taiwan exports tools to the United States．Consumers in Taiwan will probably pay a lower price for tools with free trade than they would with a closed economy．

2．Holding all else constant，a decrease in the real interest rate on Taiwan’s assets will increase the equilibrium U．S．dollar／NT\＄exchange rate．

3．If a lawyer is a better typist than his／her secretary，then he／she should type by himself／herself．

4．The Central Bank can increase the price level by conducting open market sales and lowering the discount rate．

II．A market consists of three people，A，B，and C，whose individual demand equations are as follows：

$$
\begin{array}{ll}
\text { A: } & P=35-0.5 Q_{A} \\
\text { B: } & P=50-0.25 Q_{B} \\
\text { C: } & P=40-2.0 Q_{C}
\end{array}
$$

The industry supply equation is given by

$$
Q_{S}=40+3.5 P
$$

（a）Determine the equilibrium price and quantity．
（b）Determine the amount that will be purchased by each individual．

III．Consider a product for which demand is given by the equation

$$
P=950-Q_{T}
$$

where $Q_{T}$ is the total amount produced by all of the suppliers in the markets．Suppose that the average and marginal costs are constant equal to $\$ 50$ ．
a．In a perfectly competitive market，determine the equilibrium price and quantity．
Calculate the consumer surplus．
b．Find the market price and output when there exists only a single firm．Calculate the firm＇s profit．
c．Consider a market that has two sellers．
i．Find the Cournot equilibrium．
ii．Assume that Firm A is a quantity leader．Find the Stackelberg equilibrium．

