

# 國立臺北大學 106 學年度碩士班一般入學考試試題

系（所）組別：國際企業研究所

科 目：經濟學

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☒可 ☐不可使用計算機

1. (30%) Consider a monopolist who uses one input,  $X$ , which he purchases at the fixed price  $r=8$  to produce his output,  $Q$ . His demand and production functions are:  
 $p = 80 - 2q$ ,  $q = 2X^{0.5}$ , respectively. Determine the values of  $p$ ,  $q$  and  $X$  at which he maximize his profit.
2. (20%) Let one person's utility function be  $f(q_1, q_2, q_3) = q_1 q_2 q_3$ , and his budget constraint  $y = p_1 q_1 + p_2 q_2 + p_3 q_3$ . Consider  $q_1 + \left(\frac{p_2}{p_1}\right)q_2 = q_c$  as a composite good. Formulate the person's optimization problem in terms of  $q_c$  and find the demand function for  $q_c$ .
3. (30%) US President Donald Trump plans to start by getting tough on America's trade partner, Mexico. He wish to renegotiate or "terminate" NAFTA.
  - (1) (10%) Please describe three cases for free trade and two cases against free trade, respectively.
  - (2) (5%) From the perspective of Mexico, how does a free trade agreement with the United States differ from a tariff reduction that applies to all of Mexico's trading partners?
  - (3) (5%) What is NAFTA?
  - (4) (10%) Has America lost jobs to Mexico because of NAFTA? Would tearing up NAFTA be effective to bring jobs back in US?
4. (20%) Please answer the following questions:
  - (1) (5%) What is TPP?
  - (2) (15%) Suppose Taiwan has met standards and joined TPP. Please graphically analyze the effect of joining TPP on the price level, the exchange rates, imports and exports in Taiwan.

試題隨卷繳交