國立暨南國際大學 113 學年度碩士班入學考試試題　第 2 節

科目：經濟學　　適用：財金系

編號：243

考生注意：
1.依次序作答，只要標明題號，不必抄題。
2.答案必須寫在答案卷上，否則不予計分。
3.限用藍、黑色筆作答；試題須隨卷繳回。

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第 1 頁

1. (20%) A consumer has an income of I that can be spent on two goods, x and y. The prices of these two goods are P_x and P_y, and the consumer's preferences can be represented by the utility function $U(x,y) = x^{1/4}y^{3/4}$.

   (a) (10%) Derive the consumer's demand function for good x.

   (b) (10%) Derive and interpret the consumer's income elasticity of demand for good x.

2. (30%) A small firm that operates in a perfectly competitive industry has a short-run total cost of production $STC(q) = \frac{1}{10}q^2 + 10q + 40$, and its product can be sold in the market at a price of 20.

   (a) (10%) Find the firm's profit-maximizing output.

   (b) (10%) Find the firm's maximum profit.

   (c) (10%) Suppose that all of the fixed costs are sunk, find the firm's short-run supply curve.

3. (20%) Explain the theory of efficiency wages. Provide a reason that employers might pay efficiency wages.

4. (10%) Explain whether credit cards and debit cards are money.

5. (10%) Explain how inflation affects savings.

6. (10%) Explain the theory of purchasing-power parity.