

國立高雄應用科技大學

九十七學年度碩士班招生考試

商務經營研究所

准考證號碼 (考生必須填寫)

經濟學

試題 共 2 頁，第 1 頁

- 注意：a. 本試題共 12 題，共 100 分；每小題配分如各題所示。
 b. 作答時不必抄題。未依題次順序作答於答案卷者扣 20 分；是非或簡答題未說明理由者，恕不計分。
 c. 考生作答前請詳閱答案卷之考生注意事項。

1. Suppose that the demand curve is given by $D(p) = 10 - p$. If the price changes from 4 to 6, what is the change in consumer's surplus? (5 分)
2. If a firm faces elastic demand, an increase in the price of its output may increase its revenues; true or false? (5 分)
3. Consider the production function $F(x_1, x_2) = 4x_1^{1/2}x_2^{1/3}$. Does this exhibit constant, increasing, or decreasing returns to scale? (5 分)
4. If $pF_1(x_1, x_2) < w_1$, where F is a firm's production function, p is its price of output, F_1 is the partial derivative with respect to the input of x_1 and w_1 is the price of x_1 , then should the firm increase or decrease the amount of x_1 in order to increase profit? (5 分)
5. If the demand curve facing the monopolist has a constant elasticity of s , then what will be the profit-maximization monopolist's markup on marginal cost? (5 分)
6. A monopolist never produces where the demand for output is inelastic, true or false? (5 分)
7. Suppose that there are two firms that face a linear demand curve $p(Y) = a - bY$ and have constant marginal costs, c , for each firm. Solve for the Cournot equilibrium output for each firm and the equilibrium price. (10 分)
8. State the characteristics of monopolistic competition, and the long-run equilibrium condition(s) for a representative firm in the monopolistic competition market. (10 分)
9. Utilize AD-AS (aggregate demand and aggregate supply) framework to analyze the impacts of the following events on the price level and output in the economy: (a) an increase in tax revenues (b) an increase in the supply of money (c) an increase in world oil price (d) an unexpected earthquake destroying severely capital stock. (20 分)

10. If the U.S. has low inflation and Brazil has high inflation; the U.S. dollar will depreciate relative to the Brazilian real, true or false. (5 分)
11. State the following policy instruments: (a) open-market operation (b) required reserves (c) rediscount rate, and explain how the authorities use each of the instruments to increase the quantity of money supply. (15 分)
12. Explain the event of 'subprime mortgage'. Illustrate what policies the U.S. government has adopted recently and explain the purposes of these policies. (10 分)