

注意：考試開始鈴響前，不得翻閱試題，
並不得書寫、畫記、作答。


國立清華大學 112 學年度碩士班考試入學試題

系所班組別：科技管理研究所
甲組

科目代碼：4901

考試科目：經濟學

—作答注意事項—

1. 請核對答案卷(卡)上之准考證號、科目名稱是否正確。
2. 考試開始後，請於作答前先翻閱整份試題，是否有污損或試題印刷不清，得舉手請監試人員處理，但不得要求解釋題意。
3. 考生限在答案卷上標記「由此開始作答」區內作答，且不可書寫姓名、准考證號或與作答無關之其他文字或符號。
4. 答案卷用盡不得要求加頁。
5. 答案卷可用任何書寫工具作答，惟為方便閱卷辨識，請儘量使用藍色或黑色書寫；答案卡限用2B鉛筆畫記；如畫記不清(含未依範例畫記)致光學閱讀機無法辨識答案者，其後果一律由考生自行負責。
6. 其他應考規則、違規處理及扣分方式，請自行詳閱准考證明上「國立清華大學試場規則及違規處理辦法」，無法因本試題封面作答注意事項中未列明而稱未知悉。

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系所班組別：科技管理研究所(甲組)

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一、單選題 (25 分，每題 5 分)

1. New growth theory
 - A) states that the rate of technological change is determined outside the working of the market system.
 - B) does not adequately explain the factors that determine productivity.
 - C) states that the rate of technological change is caused by economic incentives.
 - D) states that the rate of technological change is caused by random events.

2. An increase in the purchasing power of money would not, on average, result in an increase in the purchasing power of people's income because a _____ price level would likely mean _____ wages and salaries.
 - A) rising; falling
 - B) rising; rising
 - C) falling; falling
 - D) falling; rising

3. In a Bertrand model, market power is a function of
 - A) marginal cost.
 - B) the number of firms.
 - C) price elasticity of supply.
 - D) product differentiation.

4. Suppose that for each firm in the competitive market for potatoes, long-run average cost is minimized at 20 cents per pound when 500 pounds are grown. The demand for potatoes is $Q = \frac{10,000}{p}$. If the long-run supply curve is horizontal, then how many pounds of potatoes will be consumed in total?

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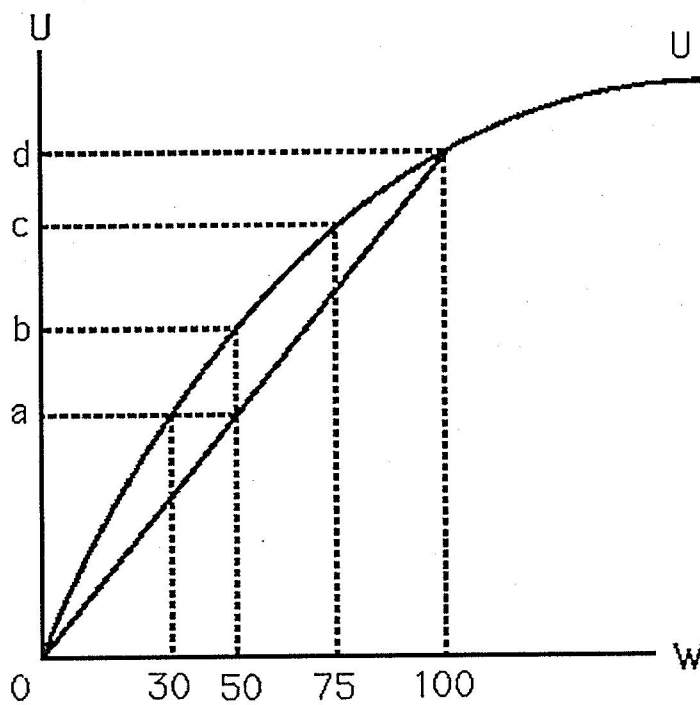
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*請在【答案卷】作答

- A) 50,000
- B) 10,000
- C) 0
- D) 500



5. The above figure shows Bob's utility function. He currently has \$100 of wealth, but there is a 50% chance that it could all be stolen. Over and above the price of fair insurance, what is the risk premium Bob would pay to eliminate the chance of theft?
- A) \$0.
 - B) \$20.
 - C) \$30.
 - D) \$50.

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二、名詞解釋 (25 分，每題 5 分)

1. 最適關稅 (optimal tariff)
2. 學習外部性 (learning externality)
3. 所得彈性 (income elasticity of demand)
4. 停滯性通膨 (stagflation)
5. 價格消費曲線 (price consumption curve)

三、問答題 (50 分)

1. Mergers between/among firms can be characterized into two types: horizontal mergers and vertical mergers. Explain the difference of these two kinds of mergers, as well as that of their welfare effects. What are criteria the government looks into for deciding whether a merger between two firms will be allowed or challenged? Which kind of merger is more likely to be challenged by the government? Why? (15 分)
2. If expectations are adaptive, how will the economy adjust to a new long-run equilibrium in response to expansionary monetary policy? Support your answer with a graph of the Phillips curve. (10 分)
3. A consumer has the quasi-linear utility function:

$$U(q_1, q_2) = 64q_1^{1/2} + q_2.$$

Assume that the price of good 2 $p_2 = \$1$ and income $Y = \$100$. Find the consumer's compensating and equivalent variations for an increase in p_1 from \$1 to \$2. (15 分)

4. 今年以來，美公債殖利率曲線呈現倒掛的現象引起了廣泛的討論。殖利率曲線倒掛具體是什麼？有何特別之處？為何市場需要關心此現象的發生？ (10 分)