

國立臺北大學 114 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

第1頁 共1頁

☒可 ☐不可 使用計算機

1. An enterpriser plans to purchase one new machine for 500 dollars. When the machine is retired at time T , its salvage value is $S(T) = 300 - 20T$. The machine yields a quasi-rent flow at the rate $R_t = 80 - 4t$ dollars per year. Assuming that the rate of interest is 4%.
 - (1) Write down the present value of the enterpriser's profit. (10%)
 - (2) When should the enterpriser retire the machine? (15%)
2. A consumer that conforms to the von Neumann-Morgenstern axioms and has an initial wealth of 250,000 dollars is subject to a fire risk. He is faced with a 5% probability of a minor fire with a loss of 90,000 dollars and 5% probability of a major fire with a loss of 160,000 dollars. Note that his utility function is $U = W^{0.5}$ and he is considering an insurance policy with the deductibility provision that he bear the first 10,000 dollars of any fire loss.
 - (1) What is the expected utility from no insurance? (10%)
 - (2) If the maximum premium is denoted by R , equate the expected utilities from insurance and no insurance. Note that there is no need to work out the answer. (15%)

[By UBS Editorial Team 21 Nov 2024]

How will Trump 2.0 tariffs affect the global economy?

A second Trump administration promises a return to a more assertive, transactional, and isolationist approach to US trade policy. This will likely lead to a further ratcheting up of pressure on China. It is also likely to target other countries running large bilateral trade deficits with the US, deemed to be engaging in unfair trade practices, or shown to be facilitating the transshipment of goods to avoid tariffs.

A second Trump administration has the potential to reshape the economy in various fundamental ways.

Based on the above information, please answer the following questions:

3. During a new term, "if" second Trump administration extends portions of the 2017 tax cut that are set to expire in 2025, and implements additional cuts in the corporate tax,
 - (1) please explain the impact of the above corporate tax cuts on corporations and consumers, respectively; (5%)
 - (2) please graphically analyze the impact of the above tax cuts on the equilibrium interest rate, exchange rate, general price level, net export and GDP of the U.S. economy. (10%)
4. [Trump 2.0 tariffs] Trump has proposed adding a tariff of 10% to 20% on all imports, with significantly higher levies on imports from China. Krugman pointed out that Trump 2.0's large increase in tariffs will inevitably lead to an increase in the cost of living for middle-income and low-income households.
 - (1) For the Trump 2.0 universal tariffs on all imports, please graphically analyze the impact of the universal tariffs on the equilibrium interest rate, exchange rate, general price level, net export and GDP of the U.S. economy. (10%)
 - (2) Compared to high-income households, please explain why Trump 2.0 tariffs can be viewed as a "regressive tax", instead of an aggressive tax to the household sector. (5%)
 - (3) Please explain the impact of Trump 2.0 selective tariffs on US inflation and a targeted country's economic activity. (10%)
 - (4) Please graphically analyze the impact of Trump 2.0 tariffs on the equilibrium interest rate, exchange rate, general price level, net export and GDP of the Taiwan economy. (10%)

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