

考試科目	經濟學	系所別	國家發展研究所	考試時間	2月2日(五)第三節
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一、
(10%) Please use words and draw a clearly-labeled graph to explain the concepts of "substitution effect" and "income effect".

二、
(20%) Insurance is prevalent in developed countries and has become more and more important in developing countries.

- (1) From people's view, why does insurance exist? Please explain the benefits of insurance in the modern society. When there is no insurance product to buy, how do people in traditional societies use other methods to get the similar benefits?
- (2) From insurance companies' view, what are the main problems they face before and after selling the insurance to people? Please use economic terms to explain.
- (3) How might National Health Insurance affect people's behavior? Please discuss potential impact on people's health behavior, labor supply, and other aspects. For each impact, please be specific about the direction (increase or decrease on what behavior) you predict.

三、
(20%) Suppose a firm's production function is: $q = KL^2$. The wage rate is $w = \$4$, and the rental rate is $r = \$2$.

- (1) Suppose the firm's capital is fixed at $K=10$ in the short run. Please find the firm's average fixed costs, variable costs, average total costs, and marginal costs as functions of q .
- (2) Now, suppose the firm is making its production decisions in the long-run so that its amount of capital is no longer fixed. Please set up the optimization problem and solve for the amounts of K and L that minimize the firm's cost of producing a given level of output, and use them to derive the firm's long-run cost function.

四、
(25%) 簡單凱因斯模型國民所得均衡可表示如下：

$$Y^s = Y^d = C + I + G,$$

$$C = a + b \cdot Y,$$

其中 Y^s 代表總合供給， Y^d 代表總合需求， C 代表民間消費支出， I 代表投資， G 代表政府支出， Y 代表國民所得， a 和 b 則為大於 0 的常數。在均衡時， $Y^s = Y^d = Y$ 。試根據前述訊息回答下列問題。

- (1) 說明 a 和 b 的經濟涵義。
- (2) 根據中研院經濟所最新的研究，馬政府時代所發出的消費券，每 100 元大約只刺激了 25 元的新消費。請說明消費券並沒有被完全轉成新增消費的可能原因。
- (3) 以當時消費券發放總金額 900 億元來估算，請問發放消費券促使當時的 GDP 增加多少？(提示：答題時，請導出計算乘數的公式。)

五、
(25%) 2017 年金融與貨幣市場的重要議題中，「美國聯準會 (Fed) 縮減資產負債表規模(簡稱縮表)」引發不少討論。何謂「縮表」？Fed 為何要啟動「縮表」計畫？「縮表」對市場有何影響？

備註

- 一、作答於試題上者，不予計分。
- 二、試題請隨卷繳交。