

မေးခွန်းအားဖြင့် 2

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- ① 1.1 အသက်စဉ်ပိုက် net saver*
- 1.2 အသက်စဉ်ပိုက် net saver နှင့် net buyer
- 1.3 အသက်စဉ်ပိုက်ကွဲ substitution effect
- 1.4 အသက်စဉ်ပိုက်

② အသက်စဉ်ပိုက် substitution နှင့် income effect အားဖြင့်

$$② \quad 2.1 \quad \sum_{t=1}^T \frac{m}{(1+r)^{t-1}} = \sum_{t=1}^T \frac{c_t}{(1+r)^{t-1}}$$

$$2.2 \quad \max u(c_1, \dots, c_T)$$

subject to

$$\sum_{t=1}^T \frac{m}{(1+r)^{t-1}} = \sum_{t=1}^T \frac{c_t}{(1+r)^{t-1}}$$

$$\text{FOC: } \frac{\partial u(c_1, \dots, c_T)}{\partial c_t} = \lambda \frac{1}{(1+r)^{t-1}} \quad (\text{for period } t)$$

$$\frac{\partial u(c_1, \dots, c_T)}{\partial c_{t+1}} = \lambda \frac{1}{(1+r)^t} \quad (\text{for period } t+1)$$

$$\Rightarrow \text{MRS}_{t, t+1} = \frac{(1+r)^t}{(1+r)^{t-1}}$$

3) 3.1 ရှာဖွေရေး SE > IE

3.2 အရှာဖွေရေး

3.3 အရှာဖွေရေး

3.4 ရှာဖွေရေး

4) 4.1 $1,000,000 + \frac{700,000}{1.1} = 1,000C_1 + \frac{1,000C_2}{1.1}$

$\Rightarrow 1,636,363.63 = 1,000C_1 + 909.09C_2$

4.2 $1,000,000(1.1) + 700,000 = 1,000C_1(1.1) + 1,000C_2$

$\Rightarrow 1,800,000 = 1,100C_1 + 1,000C_2$

4.3 အက 4.1 အရ $C_1 = C_2$

$\Rightarrow 1,636,363.63 = 1,909.09C_1$

$\Rightarrow C_1 = \frac{1,636,363.63}{1,909.09}$

$\Rightarrow C_1^* = C_2^* = 857.14$

~~1,000,000~~ $1,000,000 - 1,000(857.14)$

$= 142,860 \Rightarrow$ အရှာဖွေရေး/အရှာဖွေရေး/အရှာဖွေရေး

5.1

5) $20,000 + \frac{20,000}{2} = C_1 + \frac{C_2}{2}$

$\Rightarrow 30,000 = C_1 + \frac{C_2}{2}$

$$S.3 \quad L = \sqrt{C_1 C_2} - \lambda \left(m_1 + \frac{m_2}{(1+r)} - C_1 - \frac{C_2}{(1+r)} \right)$$

(3)

$$\text{FOCs: } \left. \begin{aligned} \frac{1}{2} \frac{\sqrt{C_2}}{\sqrt{C_1}} &= \lambda \\ \frac{1}{2} \frac{\sqrt{C_1}}{\sqrt{C_2}} &= \lambda \cdot \frac{1}{(1+r)} \end{aligned} \right\} \begin{aligned} \frac{C_2}{C_1} &= \frac{1}{(1+r)} \\ \text{or } C_2 &= \frac{C_1}{(1+r)} \end{aligned}$$

$$\Rightarrow m_1 + \frac{m_2}{(1+r)} = C_1 + \frac{C_1}{(1+r)^2}$$

$$C_1^* = \left[m_1 + \frac{m_2}{(1+r)} \right] \left[\frac{(1+r)^2}{(1+r)^2 + 1} \right]$$

$$\Rightarrow C_1 = C_2(1+r)$$

$$\hookrightarrow m_1 + \frac{m_2}{(1+r)} = C_2(1+r) + \frac{C_2}{(1+r)}$$

$$C_2^* = \left[m_1 + \frac{m_2}{1+r} \right] \left[\frac{(1+r)}{(1+r)^2 + 1} \right]$$

$$m_1 = m_2 = 20,000 \quad r = 1$$

$$\begin{aligned} C_1^* &= \left[20,000 + \frac{20,000}{2} \right] \left[\frac{4}{5} \right] = 30,000 \times \frac{4}{5} \\ &= 24,000 \end{aligned}$$

(4)

$$C_2^* = [30,000] \left[\frac{2}{.5} \right] = 12,000$$

$$\Rightarrow C_1^* > m_1 \Rightarrow \text{ឆ្លើយត្រឹមត្រូវ}$$

$$S.3 \quad r=3$$

$$C_1' = \left[20,000 + \frac{20,000}{4} \right] \left[\frac{16}{17} \right]$$

$$= [25,000] \times \frac{16}{17} = 23,529.41$$

$$C_2' = [25,000] \left[\frac{4}{17} \right] = 5,882.35$$

$$\text{Price Effect} = 23,529.41 - 24,000 = -470.59$$

Substitution Effect:

$$\Delta m = \left[\frac{1}{4} \quad -\frac{1}{2} \right] C_1 = -\frac{24,000}{4} = -6,000$$

$$\Rightarrow C_1 (\text{income} = 30,000 - 6,000, r=3)$$

$$= [24,000] \left[\frac{16}{17} \right] = 22,588.24$$

$$SE = 22,588.24 - 24,000 = -1,411.76$$

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Ordinary IE :

$$C_1 (m=30,000, r=3) = [30,000] \left[\frac{16}{17} \right]$$

$$= 26,235.29$$

$$OIE = 26,235.29 - 22,588.24 = 5,647.05$$

Endowment IE :

$$EIE = 23,529.41 - 26,235.29$$

$$= -4,705.88$$

6) တာကပ်ဝဲ ဖိးဒေသစာ မုဲးဂီၤခွဲ ဝဲးဂါးပိာ်

$$550 \left(1 + \frac{1+0.1}{2} \right) \neq 550 = 550 + 577.5$$

$$= 1,127.5$$

ခိၣ်အကပ်ာ် 1,100 ခာ်

7) တာ r မိာ်ကိာ်ကုာ် $\frac{1}{(1+r)^{10}}$

တာ r ဇာ်ကိာ်ကုာ် $\frac{1}{\prod_{t=1}^{10} (1+r_t)}$