## 國立臺北大學九十七學年度碩士班招生考試試題

系 (所)別:財政學系

科 目:財政學

第1頁 共1頁□可 ☑不可使用計算機

一、是非不定題 (每題 10 分,總分 50 分)

請評論下列敘述為對、錯或不一定,請說明理由,若有適當圖形,請畫圖輔助說明。

- 1. Government assignment and enforcement of property rights internalize an externality and this approach works better than direct government intervention.
- 2. Both adverse selection and moral hazard problems cannot be solved in social health insurance programs.
- 3. Food Stamps are not as good as cash for families who spend little on food, but they are better than cash for families who spend a lot on food.
- 4. Logrolling is a pareto improvement in social welfare.
- 5. If workers employed in a project would have been unemployed in the absence of the project, the wages paid to them can be treated as a project benefit.
- 二、假設社會中僅存在甲、乙兩位仁兄,並且兩人的效用函數分別為:

$$U^{\oplus}(X^{\oplus},G) = 0.5 \ln X^{\oplus} + 0.5 \ln G$$

(其中 X<sup>甲</sup>為某甲的私有財消費量, G為公共財數量)

$$U^{\mathbb{Z}}(X^{\mathbb{Z}},G)=(X^{\mathbb{Z}})^{\alpha}(G)^{\beta}$$

(其中 X<sup>Z</sup> 為某乙的私有財消費量, G 為公共財數量)

又我們假設私有財的市場價格為 $P_{\chi}=1$ ,而公共財生產之平均成本等於邊際成本等於1,至於在甲、乙兩人的所得水準方面,則是分別為 $Y^{\Pi}$ 以及 $Y^{Z}$ 。請在上述設定下:

- (1) 推導此一模型下的 Lindahl equilibrium。(10分)
- (2) 推導此一模型下的最適公共財提供數量。(5分)
- 三、A proposal for a negtive income tax is designed to provide an income guarantee for each person, irrespective of his age or status, of \$24,000 per year. Thus, a family of four would have an income guarantee of \$96,000 per year. The transfers under the program will be phased out at a rate of 40 percent as earned income increases. Caculate the break-even level of income for a family of four. (5分) If all families above the break-even level of income pay a flat-rate 25 percent tax on their earnings, plot disposable income as a function of earned income. (5分)
- 四、請舉例驗證 Borda Count 投票法則違反無關選項的獨立性 (independence of irrelevant alternatives)。(5 分)
- 五、試證明課徵從量貨物稅之超額負擔(福利損失 肌)為:(10分)

$$WL = \frac{1}{2}T^{2}\frac{Q^{*}}{P^{*}}\left[\frac{\varepsilon_{s}|\varepsilon_{D}|}{\varepsilon_{s}+|\varepsilon_{D}|}\right]$$

上式當中: $\epsilon_s$ 為供給價格彈性;

 $|\varepsilon_D|$  為需求價格彈性係數:

Q\*為稅前均衡數量;

P\*為稅前均衡價格;

T為單位從量貨物稅額。

六、請以圖形說明:政府為了收取相同的稅收,與其選擇較少的商品課以較高的租稅,不如選擇對較多的商品課徵較低的租稅,因為這將有助於降低稅課的福利成本。(10分)