

考試科目	財政學	系所別	財政學系	考試時間	2月18日(一) 第3節
<p>1. Assume that Mars has the preferences $p=10-2q$ for a public good and Mercury has the preference $p=5-q$. The marginal cost is equal to 3. How much should be produced in the society's optimum. How much should each individual pay if Lindahl pricing is used? Describe a potential problem if Lindahl pricing is used in practice. (15 points)</p> <p>2. Sun and Moon are the only people who live near a public pond, which is frozen in the winter. Moon enjoys skating on the pond, while Sun wants to cut holes in it for ice fishing; he sells all the fish he catches. The first hole Sun cuts will produce the most fish, the second hole will produce fewer fish, and so on; once Sun has cut 100 holes, cutting any further holes will produce no more fish. Suppose that Moon's pleasure in skating is reduced by $\\$X$ for every hole Sun cuts.</p> <p>(1) Draw a diagram that depicts this situation. Show the number of holes that Sun cuts if he and Moon cannot talk to each other or negotiate about what Sun does. (5 points)</p> <p>(2) On your diagram, show the Pigouvian tax that will induce Sun to cut the efficient number of holes, and show the amount of revenues collected by the tax. (5 points)</p> <p>(3) Explain what economic theory says would happen if Moon were given exclusive property rights to the pond, then discuss what would happen if Sun were given property rights. Be sure to discuss effects on Sun's and Moon's utility as well as on the number of holes. (Assume in both cases that Moon and Sun can now negotiate about the outcome, and can pay each other if such payments would permit a Pareto-improving bargain.) (10 points)</p> <p>3. What effect does Social Security have on savings? (10 points)</p> <p>4. Assume that the government decides to impose a unit tax on the producers of the medicine insulin (胰島素) which individuals with diabetes (糖尿病) take. Which are the plausible effects on the tax incidences on producers relative to consumers, i.e., the consumer and producer burden? Show in a figure and explain. (15 points)</p> <p>5. Assume an income tax was doubled. Describe what would happen to labor supply and leisure. (10 points)</p> <p>6. Explain the difference between general grants and categorical grants. Under what circumstance will they have the same impact? In that case, will one have an advantage over the other? (15 points)</p> <p>7. Provide a utilitarian justification for using the tax system to provide a more equal distribution of income as well as two possible counterarguments to this viewpoint. (15 points)</p>					
備註	<p>一、作答於試題上者，不予計分。</p> <p>二、試題請隨卷繳交。</p>				