## 國立成功大學 113學年度碩士班招生考試試題

編 號: 241

系 所:交通管理科學系

科 目: 經濟學

日 期: 0202

節 次:第1節

備 註:不可使用計算機

編號: 241

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考試日期:0202,節次:1

第1頁,共2頁

※ 考生請注意:本試題不可使用計算機。 請於答案卷(卡)作答,於本試題紙上作答者,不予計分。
The exam has 20 questions in blank and each question is 5 points. There are 100 points in total.

## Question 1. (20 points)

Suppose that your demand schedule for pizza is as follows:

Price	Quantity Demanded (income = \$20,000)	Quantity Demanded (income = \$24,000)
\$8	40 pizzas	50 pizzas
10	32	45
12	24	30
14	16	20
16	8	12

increases from \$8	nethod to calculate your price elasticity to \$10 if your income is \$20,000	
•	me elasticity of demand as your income ce is \$12, and if the price	
Question 2. (25 point	rs)	
A market is descr	ribed by the following supply and demand	d curves:
	Q <sup>S</sup> =2P	
	Q <sup>5</sup> =2P Q <sup>D</sup> =300-P	
(a) Solve for the equil	ibrium price and quantity,	
(b) If the government	imposes a price ceiling of \$90, does a s	hortage or surplus (or neither)
	What are the market price, q	uantity supplied, quantity
demanded, and size	e of the shortage or surplus?	
(c) If the government	imposes a price floor of \$90, does a sh	ortage or surplus (or neither)
	What are the market price, q	
demanded, and size	e of the shortage or surplus?	

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第2頁,共2頁

Que	stion 3, (25 points)
One	day, Barry the Barber, Inc., collects \$400 for hair cuts. Over this day, his equipment depreciates
in va	lue by \$50. Of the remaining \$350, Barry sends \$30 to the government in sales taxes, takes home
\$220	0 in wages, and retains \$100 in his business to add new equipment in the future. From the \$220
that	Barry takes home, he pays \$70 in income taxes. Based on this information, compute Barry's
conti	ribution to the following measures of income.
(a) g	ross domestic product
(b) n	et national product
(c) n	ational income
(d) p	ersonal income
(e) d	isposable personal income
Que	stion 4. (30 points)
Depo	osit \$1,000 in bank for one year. Consider the following two cases. Case 1: inflation rate
P =	0%, interest rate $R$ = 10%; Case 2: inflation rate $\dot{P}$ = 10%, interest rate $R$ = 20%.
(a)	In which case, how does the real value of your deposit grow? Case 1:
	Case-2:
Now	, assume the tax rate $t$ =25%.
(b)	In which case, how do you pay the tax? Case 1: Case 2:
	<del></del>
(c)	Compute the after-tax real interest rates for both cases? Case 1:
	Case 2: