考試科目經濟學系別财政系 考試時間 2月2日第2節

- 一、是非評論題(請注意**關鍵字句**-需說明論點才給分;若能佐以數學式、圖形等工具更佳):
- (1) 若消費者之偏好可藉由一標準化(normalized)的 Cobb-Douglas 效用函數來呈現,則各商品需求量的相對比例不會因為商品價格波動而有所改變。(5分)
- (2) Nothing is more useful than water; but it will purchase scarce anything; scarce anything can be had in exchange for it. A diamond, on the contrary, has scarce any value in use; but a very great quantity of other goods may frequently be had in exchange for it
 - Adam Smith, An Inquiry into the Nature and Causes of the Wealth of Nations 根據上述引文,可知水的邊際效用遞減,但鑽石的邊際效用持平,甚至遞增。【5分】
- (3)某獨佔廠商利潤在追求極大化的目標(未行使差別取價)下,目前生產水準所對應之 平均成本為每單位5元,邊際成本為每單位3元。該廠商獨佔獲利必然為正。【5分】
- 二、某消費者將所得全數用於購買兩種商品—書本(單價 $\$P_b$)和服裝(單價 $\$P_c$)。目前她目前所預定購買的商品數量,使得消費書本的邊際效用是消費服裝之邊際效用的3倍。在邊際效用遞減的前提下,她的經濟顧問為確保最適選擇,建議現階段的商品組合應作調整:增加消費服裝數量,並減少書本消費量。由以上資訊,是否可推知 P_b, P_c 間的相對關係?【15分】
- 三、某一產品之需求為 Q = 800 100P。生產此產品之產業為完全競爭之型態。廠商之長期平均成本的極小值為每單位 4 元 (於 20 單位之產量)。某一廠商「創新王」目前正評估一研發計劃。此計劃之研發成本為 D ,一旦投入 D 後,研發成果可使邊際成本降至 \$2 (總成本可視為 TC(q) = 2q + D)。其他廠商現階段並不具研發能力。
 - (1) 若「創新王」的法務部門肯定此研發成果可取得專利保護,因而形成一獨占局 面,但研發部門估算研發投入規模(D值)需800元,「創新王」的執行長是否 應批准該項投資?。(10分)
 - (2) 若「創新王」已知此研發成果不能取得專利保護,且另一廠商「複製達人」可輕易複製「創新王」開發之新技術 (無須投入研發成本),將邊際成本同樣降至\$2,若「創新王」預期與乙於研發成功後,市場結構將是 Cournot Competition,「創新王」是否仍有意願從事該項研發 (研發部門估算研發投入規模 (D值)需800元)?(10分)

考試科目經清學 系别处理 考試時間 2月27日第2節

- Ⅲ 解釋下列名詞:(25%,每小題5分)
 - (1) 國內生產毛額 (gross domestic product)
 - (2) 流動性陷阱 (liquidity trap)
 - (3) 實質景氣循環理論 (real business cycle theory)
 - (4) 痛苦指數 (misery index)
 - (5) 外匯存底 (foreign exchange reserves)
- 五 中央銀行宣布自 6 月 22 日起調高重貼現率、擔保放款融通和短期融通利率各 1 碼 (0.25 個百分點);外幣存款準備率調高至百分之五。(25%)
 - 試問:(1)此項政策,主要目的為何?(8%)
 - (2)假設其他條件不變,調高重貼現率,對均衡物價水準和所得水準的 影響如何?(8%)
 - (3)除了重貼現率外,中央銀行還有哪些貨幣政策工具,可用來穩定物價 水準和促進所得水準? (9%)

國立政治大學 九十六學年度轉學生入學考試 命題紙

第/頁,共3頁

考 試	科 目	初級會計	學		系	別財	政學系	考	試明	寺門	7 月星期六	7	日第		四	節
.(25%)	The fol	lowing info	rmation i	is avail	able for	the Ar	t Corporati	ion:				_				
					Art C	orporat	ion					•				2
					Balan	ce Shee	ets									立
	·				At Dec	cember	31									政
								2	007	, .	2006					治
	Assets:						•									大
		sh							24,640	\$	23,040					学
		counts recei							32,180		29,400					圖
		rchandise in							73,125		61,710					書
		ng-term inv							55,900		56,400					辖
		uipment							75,500	•	145,500					
	Ac	cumulated of	depreciati	ion	<i>.</i>				(<u>33,550</u>)		<u>(31,200)</u>					
	Total a	ssets	••••••	•••••		*********		· <u>\$3</u>	327,795	<u>\$</u>	<u> 284,850</u>	•				
										•					÷	
	Liabili															
	Ac	counts paya	ble	*********	•••••	••••••		\$	65,000		40,380					
	Inc	ome taxes p	oayable	•••••••	• • • • • • • • • • • • • • • • • • • •	,	• • • • • • • • • • • • • • • • • • • •		10,725		10,200					
		nds payable							48,750		66,000			•		
		iabilities	•••••	•••••			• • • • • • • • • • • • • • • • • • • •	 \$ 1	124,475	\$	116,580					
	Equity															
		mmon stocl							117,000		96,000					
		ntributed ca							13,000		9,000					•
		tained earni							73,320		63,270					
	Tot	al equity	***********			••••••	• • • • • • • • • • • • • • • • • • • •		203,320		168,270					
	Total I	iabilities and	d equity.	••••••	• • • • • • • • • • • • • • • • • • • •	••••••	*******	\$3	327,795	\$	<u> 284,850</u>					
			,							-						
•					Corporat										•	
			D 37		e Stater											
			For Year						***************************************	_						
		**************						\$	240,000							
		of goods so						000		77						
	Depre	eciation exp	ense	•••••			29,4	100							,	
	Other	operating e	expenses	• • • • • • • • • • • • • • • • • • • •	••••••	• • • • • • • • • • • • • • • • • • • •	48,0	000								
	Intere	est expense.	· · · · · · · · · · · · · · · · · · ·	•••••		• • • • • • • • • • • • • • • • • • • •	2,0	000 (160,300)						
•	Other	gains (loss	es):								-				•	
	L	oss on sale	of equipr	nent		• • • • • • • • • • • • •			(8,400	<u>)</u>						
	Incon	ne before ta	xes	• • • • • • • • • • • • • • • • • • • •	•••••	•••••			71,300)						
		ne taxes exp							(27,650	2)						
	Net in	ncome		••••••	**********	••••••		\$	43,650	<u>)</u>			•			
	4 1 11.1	1.7.0	. •													
		onal Inform				0.1		•						,		
		here was no										onds	retired	•		
		old equipme						sold fo	r \$2,100) cas	h.					
		lew equipm					cash.									
		ash dividen														
	(5) A	dditional sl	nares of s	stock w	ere issu	ied for	cash.									• .
	D		4		. ~			<u>.</u>		. •						
	Prepar	e a complet	e stateme	ent of c	ash flov	vs for c	alendar-ye	ear 200	5 using	the	direct me	ethod	l		2	
44.		٠, الد	ø .	n #2	ste			000								····
猪		考試	題	隨	卷	紋 交	-	029)							

國立政治大學 九十六學年度轉學生入學考試 命題紙

-	試	科	且	初級會計學	系	別	財政學系 	考	試	時	間上	上期を	₹ 7 \	7 日	第 		四	
(2	5%)	The	follo	owing information is fr	om Omi C	orpoi	ation's balance	she	ets as	of I	Decen	nber :	31,	2006	, and	2007	and i	its
		inco	me s	statement for 2007:														
•							2007		2006									
		Ass	ets:		*		2007		2000									
				••••••	**********		\$ 18,000	\$	22,0	000								
		Ma	rket	able securities			25,000	4	,	0								
				nts receivable					42,0	000								
				ory					52,0	000			,					
				l insurance					9,0	000				•				
				erm investments					20,0									
				ssets, net					225,0									
		lot	al a	ssets		•••••	\$415,000	<u>\$</u>	370,0	<u> </u>		,						
		Net	inc	ome		•••••	\$ 62,250						,				,	
		Sal	es (a	all on credit)	••••••		305,000											
		Cos	st of	goods sold		•••••	123,000											
				t expense														
	,	Inc	ome	e tax expense	••••••	•••••	27,000											,
		Fron	n the	e above information, ca	alculate the	e follo	wing ratios for	r 201	77.									
				ntory turnover.		LIOIN	wing ratios io	. 20	<i>J</i> 7.									
				ounts receivable turnov	er.													
				rn on total assets.														
				es interest earned.														
	,	(e) T	otal	asset turnover.														

- Apr. 15 Bard's account receivable of \$5,700 was deemed uncollectible.
- July 1 Drake paid the full amount of a previously written-off account receivable.

This receivable of \$2,300 had been written off in the prior year.

Dec. 31 Bad debts expense of \$7,500 was recorded.

What amount should appear in the allowance for doubtful accounts in the December 31, balance sheet for the current year?

4. (5%) A company reported net income of \$478,000 and paid \$5,500 in preferred cash dividends during the current year.

The company had 100,000 common shares issued, and 10,000 common shares in treasury. The year-end market price per common share was \$43.05. Calculate the company's price-earnings ratio.

國立政治大學 九十六學年度轉學生入學考試 命題紙

第一頁,共3頁

政

大學圖書

					<u> </u>	7 月 7 六 〇	只
考 試 科 目初級會計學	系 別	財政學系	考試	時間 早期プ	月7日第六	四	節
5.(20%)On September 30 of the current year has been estimated that the machine			-			•	ŀ

has been estimated that the machine has a service life of five years and a salvage value of \$40,000. Using the double-declining-balance method of depreciation, prepare a schedule showing depreciation amounts for the current year and the next 4 years (round answers to the nearest dollar). The company closes its books on December 31 of each year. Please use the format shown below.

	Depre	eciation for the Po	End of Period				
	Beginning of	,					
	Period Book	Depreciation	Depreciation	Accumulated	Book Value		
Year	Value	Rate	Expense	Depreciation			
1							
2		•			· · · · · · · · · · · · · · · · · · ·		
3							
4							
5							
6					·		

6. (20%) A company issued 10%, 5-year bonds with a par value of \$2,000,000, on January 1, 2005. Interest is to be paid semiannually each June 30 and December 31. The bonds were sold at \$2,162,290 to yield the buyers an 8% annual return. The company uses the effective interest method of amortization.

Prepare an amortization table for the first two semiannual payment periods using the format shown below.

Semiannual	Cash	Bond			•
Interest	Interest	Interest	Premium	Unamortized	Carrying
Period	Paid	Expense	Amortization	Premium	Value

考試科目從文積分系列財政多考試時間召用了日第人節

- 1. Find the total area between the curve $y = 1 x^2$ and the x-axis over the interval [0,2]. (15 points)
- 2. Evaluate the double integral $\int_0^2 \int_{y/2}^1 e^{x^2} dx dy$ by reversing the order of integration. (15 points)
- 3. Find the general solution of the differential equation, $y' = \frac{x}{y} \frac{x}{1+y}$. (15 points)
- 4. Use implicit differentiation to find dy/dx for the Folium of Descartes $x^3 + y^3 = 3xy$. Find an equation for the tangent line to the Folium of Descartes at the point $(\frac{3}{2}, \frac{3}{2})$. (20 points)
- 5. Generate or sketch a graph of the equation $y = [2x^2 8]/[x^2 16]$ and identify the exact locations of the intercepts, relative extrema, inflection points, and asymptotes. (20 points)
- 6. Use the eighth-degree Taylor polynomial for e^{-x^2} to approximate the definite integral $\int_0^1 e^{-x^2} dx$. (15 points)

考