飲料目 ourse	會計	學	条城	财政所	a #6 Date, Period	4月	2 3 B	故題編號 Course No.	-
20 Or	May 1, 19	99, Tom Cor	p. declared	and issued a 1	0% commo	n stock di	ividend.	Prior to this	4 -
divi	dend, Tom	had 100,000	snares of 31	par value cor	HIIIOH STOCE	. Issueu ai	id Outsia withof th	inumg, The i	TOTAL
valu	ie of Tom's	common sto	ck was 530	per share on N	increased b	r. Ausaties ar ⊈200 00	ant of the	IS STOCK	į (iž
divi	dend, Tom's	s total stockh	olders equi						<u></u>
	b. decrea	ased by \$300	,000. c. ai	ecreased by \$1 ercentage-of-	o,000. u.	method o	faceoun	ting. In 19	
21.Ea	ist Construc	non Compan	ty uses the p	ceived which p	recarided for	r a contra	et price	of \$5 000 00	36
			act it had te	cerved winding	MOMMES IN	1999	or price	<b>01 00,000,</b> 00	大學
Oth	er details fo	incurred dur	ing the room			\$1,600.00			
	Costs	incurred dur	.complete a	s of December		2,400,00			Bi
	Esum Billio	gs during the	vear	g OI December.		1,500,0			書
		ctions during				900,00			4
W				ized in 1999?					-
44.1	0 0100 a	100 h \$3	400 000	c. \$400,000	. d. \$1.	.000,000			
ľ.O4	a. 5100,0	at the end o	£1999 its f	irst year of op	erations, pr	enared a r	reconcili	ation betwee	÷n
F 64	ra King Co raw financial	lincome and	tavable inco	me as follows	r	•			
pre	tax mancia	Pretax finan			\$3	000,000			
		Estimated li				00,000			
		Extra depre			(60	0.0001			
		Taxable inco			\$1	00,000			
pai thr 22. <b>(</b>	d. Use of the ee years. The [Q4] Incom [Q4] The	e depreciable ne income tax ne tax payable deferred tax a	e assets will rate is 30% le is asset to be r	ecognized is	le amounts 30,000	of \$200,0	000 in es	d. \$90,000.	xt
	a. \$30,000	current. b	, \$60,000 cr	irrent. c. \$9	0,000 curre			current.	_
24. I	n accountin	g for a pension	on plan, any	difference bet	ween the p	ension co	st charge	ed to expens	8
and	d the payme	ents into the f	und should	be reported as				. mak	
a. a	in offset to t	he liability fo	r prior serv	ice cost. b. a	ccrued of p	repain pe	insion co	ist. A depressinti	out.
c. a	in accrued a	ctuarial liabil	ity. d.ach	narge or credit	to unrealiz	ed apprec	tation at	id deprecian	AZUI. Mitera
[Q:	5 ] Alcott le	eased equipm	ent to Cook	Company on	May 1, 199	90. ALU	uat ume	the conecao	anty
of	the minimu	ım lease payn	nents was N	OT reasonably	y predictabl	e. The l	ease exp	ires on May	. 1,
19	98. Cook	could have b	ought the e	quipment fron	n Alcott for	: \$400,000	o msteac Com 1 16	OF REASING I	nnn .
Al	lcott's accou	inting record	s showed a	book value for	tue equipi	nent on M During 10	14y 1, 15 106 Cov	790, OL \$330 Strooid \$90 (	,000.
Al	lcott's depre	ciation on th	e equipmen	in 1996 was	345,000.	During 1:	iond oth	or related co	ote ete
in	rentals to A	doott for the	8-month pe	riod. Alcott in in 1996. Af	tor the lease	a with Co	ok evnir	es Alcott w	ill
ur	ider the terr	ns of the leas	e of \$8,000	in 1990. All	ter the least	WILL CO	ov evbn	ea, rateon in	***
lea	ase the equi	pment to Tel	tec Compan	y for another taxes derived	iwo years. be Alcott fi	om this le	ease for i	the year end	ed
25.	[Q5] Th	e income per	ore income	taxes derived	Uy ALLOH II 	n o s	882,000.	d. \$90.0	00
D	ecember 31	, 1996, shoul	d be a	., \$37,000. XES the amou	ല. ഉ43,000 ലോഗ് മെന്നത്ത	aa incurre			
26.	[Q5] IG	NOKING IN	COME IA.	ABS the altiou	nt or expen	L EAS OF	10 oy 00 10 o 48'	2.000 4.890	000
fo	r the year e	nded Decem	ber 31, 1990	s, should be note payable	7,000 دو.a into a loco	, utama <sub>s</sub> ut Litarim not	.u. u.po. e navahi	e,000. a.aso A this transc	ection
27.	If a compar	y converted	a snort-tern	ital. b. decre	and a fong	orkina ca	o payaor nital and	the current	ratio.
W	ould a de	crease only v	working cap	d. increase bo	th working	capital ar	nd the cu	rrent ratio	A TOTAL OF 1
_	c. increase	only working	; capitai.	a. increase oo ng principle th	ur working ar should be	aprour ar a handled	currently	v is a change	from
28.	An example	e of a change	m accountii	iR brincibie m	ar arreaded of	o mananest	aran i William	i ro m Arient@A	and the state of

a. completed-contract method to the percentage-of-completion method for long-term contracts.

b. LIFO method to the FIFO method for inventory valuation.c. sum-of-the-years'-digits method to the straight-line method.d. "full cost" method to another method in the extractive industry.

the

立政治大學圖

(二) (24%) The balance sheet data of the Parker Company at the end of 1999 and 1998 follow:

		A CASA MARKET NO. 12
	1999	1998
Cash	\$ 20,000	\$ 30,000
Accounts receivable (net)	60,000	50,000
Merchandise inventory	75,000	45,000
Prepaid expenses	10,000	25,000
Buildings and equipment	95,000	75,000
Accumulated depreciationbuildings and equipment	(18,000)	(8,000)
Land	85,000	40,000
Totals	\$327,000	\$257,000
Accounts payable	\$ 65,000	\$ 45,000
Accrued expenses	15,000	18,000
Notes payable-bank, long-term	•	50,000
Mortgage payable	35,000	,
Common stock, \$10 par	204,000	159,000
Retained earnings (deficit)	8,000	_(15,000)
	\$327,000	\$257,000
		An exercise and a second

Land was acquired for \$45,000 in exchange for common stock, par \$45,000, during the year; all equipment purchased was for cash. Equipment costing \$7,000 was sold for \$3,000; book value of the equipment was \$5,000 and the loss was reported as an ordinary item in not income. Cash dividends of \$15,000 were charged to retained earnings and paid during the year; the transfer of not income to retained earnings was the only other entry in the Retained Earnings account. INSTRUCTIONS (阿用中文答题)

Prepare a statement of cash flows for the year ended December 31, 1999, for Parker Company.

## (三)(20%)南林公司民國 88 年 12 月 31 日之資產負債情形如下:

## 南林公司

## 資產負債帳面價值及公平市價

## 民國 88 年 12 月 31 日

項目	帳面價值	公平市價	項目	帳面價值	公平市價
現金	\$700,000	\$700,000	固定資產(淨額)	700,000	800,000
應收款(淨額)	320,000	300,000	專利權	300,000	200,000
有價證券	520,000	500,000	流動負債	500,000	500,000
存貨(後進先出法)	260,000	300,000	長期負債	700,000	700,000

若華東公司 89 年 1 月 1 日分別以(1) \$1,800,000;(2) \$1,100,000;(3) \$500,000等三種不同價格購買南林公司,試依據會計原則列出華東公司在此三種不同情形下應有之取得分錄





Period

1. Find the derivative of

a. (10 points) 
$$y = \frac{(1-2x)(3x+2)}{5x-4}$$
b. (10 points) 
$$y = \ln \frac{x(x^2+1)^2}{\sqrt{2x^3+1}}$$

b. (10 points) 
$$y = \ln \frac{x(x^2+1)^2}{\sqrt{2x^3+1}}$$

(10 points) Find the tangent line to the graph of

$$y = \sqrt[3]{(x^2 + 4)^2}$$

when x=2.

- (10 points) Find the slope of the graph of  $2x^2 y^2 = 1$  at the point (1,1).
- 4. (10 points) A company is increasing the production of a product at the rate of 200 units per week. The weekly demand function is modeled by

$$p = 100 - 0.001x$$

where p is the price per unit and x is the number of units produced in a week. Find the rate of change of the revenue with respect to time when the weekly production is 2000 units.

(10 points) By increasing its advertising cost x for a product, a company discovers that it can increase the sales y (in thousands of dollars) according to the model

$$y = \frac{1}{10,000} (300x^2 - x^3), \quad 0 \le x \le 200$$

Find the point of diminishing returns for this product.

(Hint: An increased investment beyond this point is usually considered a poor

筹

歌

效

話,是否有編利損失存在?講說明之。 失。聚矯正道種福利損失的話,有何辦法?如果產品市場應一獨佔市場的 品市場中,有一項生產要素爲共主資源、購討論市場的均衡條件和攝利損

什麼是共主資源(common property resources)?假設一個感完全競爭的產 (25 P)

、討論財產稅的租稅歸宿時有所謂舊觀點和新觀點(old view and new view) 的祖枕歸宿 之分,請分別說明其主要內涵及根據。我國的財產稅制度中,包含那些租稅 項目?各稅目的主要內容爲何?並分別根據舊觀點和新觀點討論這些稅目 (A2A)

三、假設維濟體系由兩個人所組成、消費兩種對資:X,(特有財)・G(公共財)。 两人的数用函数幻烁 u(X,,G)=X,G"\*,i=1,2。简游黯烁纪孔阑回能曲錄版 X,+X,+G=C,C属—出籍數、數示猶濟演游的數量。器回答下列各門 (A22A)

- 1.用圖形嵌片符合 Pareto 效學的資源分配的狀態。
- 2.假数社會漏利函數寫 utilitarian 型,以追求計會漏利最大寫涵吸目的的政府 應選擇#一個資源分配?
- 3.學出公共財的私人資源提供(voluntary provision)水準・並說明寫什麼這個 火斛卜炸伯獒脎艺像年。

四、在對論最適商品稅的設計中,Ramsey Rule 及 Corlett-Hague Result 是兩個與 魔品彈性有關的法則。請分別導出這兩個法則,並討論其意圈。 (ユタケ)

> 光浴大 爭

				1 1 2 22 1 1 2 3	1			
Course 为双个真刀	i	**	1911	Period	养	TI/	碎	Co

6. (10 points) The demand and supply functions for a product are modeled by Demand: p = -0.36x + 9

**Supply:** p = 0.14x + 2

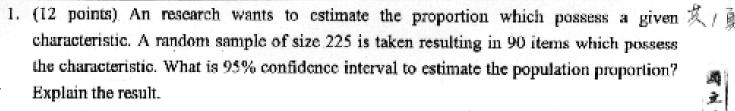
Where x is the number of units (in millions). Find the producer surplus for this product.

7. (10 points) A psychologist finds that the probability that a participant in a memory experiment will recall between a and b percent (in decimal form) of the material is

$$P(a \le x \le b) = \int_a^b \frac{28}{9} x^{-3} \sqrt{1-x} \, dx, \quad 0 \le a \le b \le 1.$$

Find the probability that a randomly chosen participant will recall between 0% and 87.5% of the material.

- 8. (10 points) Find the indefinite integral  $\int x^2 e^x dx$
- 9. (10 points) Evaluate the definite integral  $\int_{1}^{e} \ln x dx$



- (14 points) A student randomly guesses the answers to a four question true/false test. If there is a 50% chance of guessing correctly on each question.
  - (a) What is the probability that the student misses one question?
  - (b) What is the probability that the student misses no question?
- 3. (14 points) An analysis of personal loans at Mucha Bank revealed the following facts: 15% of all personal loans are in default (D), 85% of all personal loans are not in default (ND), 20% of those in default are homeowners (H | D), and 70% of those not in default are homeowners (H | ND). If one of the personal loans is selected at random,
  - (a) what is P(H ∩D)? Explain the result.
  - (b) what is P(D | H)? Explain the result.
- 4. (20 points) Let  $X_1, X_2, \ldots, X_n$  be n independent random variables having identical distributions with mean  $\mu$  and variance  $\sigma^2$ .
  - (a) Please describe the "Central Limit Theorem" using these variables.
  - (b) Please set up an example to demonstrate the application of this theorem.
- 5. (20 points) Given the following joint probability distribution,

25				
		0	1	2
	0	0.05	0.1	0.03
Y	1	0.21	0.11	0.19
	2	0.08	0.15	0.08

- (a) Find the marginal distribution of X and Y.
- (b) Calculate E[X].
- (c) Calculate Var[X].
- (d) Calculate Cov[X,Y].
- (e) Calculate the conditional probability  $Prob[X = 1 \mid Y > 0]$ .
- 6. (20 points) The following data is to be used to construct a linear regression model:

$$\hat{Y}_i = a + bX_i$$

<u>x</u>	3	5	4	7	12
У	10	12	14	18	20

- (a) What is the value of the slope b?
- (b) What is the value of the intercept a?
- (c) What is the value of the coefficient of determination R<sup>2</sup>?
- (d) What is the value of the standard error of the estimate S<sub>c</sub>?
- (e) Using the significance level 0.05 to test the null hypothesis  $H_0$ :  $\beta = 0$ .

$$(t_{3,0.025} = 3.182)$$

考試科目	8至濟學(個體)	<b>条</b> 級	财政	리 3년 Date.	Я	B	状翅编弦
Course	4	24 pg /	N:1 -/	Period	第	ðþ	Course No.

個體經濟學

ダろ 夏

- 一,簡要評論下列敘述:
- (a). 某正常財(X)不可能為某劣等財(Y)之互補財·因該劣等財(Y)必爲該正常財(X) 之替代財。(5 分)
- (b). CES(Constant elasticity of substitution)效用函數所對應之需求函數具有固定需求 彈性・(5 分)
- (c)在一簡單交易經濟體系(pure exchange economy)中僅有的兩人,偏好均符合良好 規範(convex-to-the-origin),即便其中一人現具有獨自設定財貨交易之價格比值 之權限,編利經濟學之第二定理仍然成立。(5分)
- 二、消費者之所得為 M・效用函數為  $U(x,y,z) = \alpha \log x + \beta \log y + \gamma z \cdot \alpha \cdot \beta \cdot \gamma > 0$ ・ $\alpha + \beta = 1$ 。財貨之市場價格分別為  $(p_{\alpha},p_{\beta},p_{\alpha})$ 。試求出:
- (a) 當所得相當大(以至於產生內部解)·若 p. 之價格變動·財貨 y 所引發之(Hicks) 替代效果爲何?(8分)
- 三. 近日產業新聞中,四月四日美國聯邦法官 Jackson 判決微軟(Microsoft)嚴重違 反反托辣斯法一案,顯然最受矚目,在判決書中更載明:『(微軟)以阻擾 競爭的手段維持獨佔,並意圖壟斷網路瀏覽器市場、、、』,由此可見網路之普及對現代經濟結構之巨大衝擊。
- (a) 若定義網路外部性爲『消費某一產品所得之效用會因相容產品之網路使用人數增多而增加』,請以『使用網路人數』爲橫軸座標,具有網路外部性之『財貨單價』爲縱軸座標,搭配妳(你)所知的基礎經濟概念(如邊際效用遞減、邊際替代率遞減或遞增、Willingness to pay、財貨間的互補或替代等)描繪該財貨之需求曲線(可考慮糾率、截距、轉折、彈性等特性)。(7分)
- (b) 針對此判決所可能採行的懲罰(補救)措施之一為:將微軟分割爲數家規模較 小且競爭之公司。假設分割爲兩家後之成本函數分別為:

 $c_1(q), c_2(q) = 2c_1(q), \pm c_1(0) = 0, c_1(q) 爲嚴格凸函數$ 則在 Cournot 均衡下,該產業(僅含兩家廠币)之生產總成本是否同時已極小化了?(10 分)

(c) 將(b)小願之條件修改爲

$$c_2(q) = c_1(q)$$

後,結論是否有所改變?(5分)

(d) 根據(b)、(c)小題的推論結果,可對「分割」之提議作出何種(有關產業配置效率)判斷(? (5 分)

3-2

D. Short-Answer Questions (25 points): Answer only five of the following questions. Answer the first two questions (i.e., question 1 and question 2) and any three of the remaining questions. State whether they are *True*, *False*, or *Uncertain*. Explain why using any appropriate diagrams, equations, empirical results, or stylized facts. Be sure to state all pertinent assumptions you are making. Each question is worth five points.

- 1. Whether the money supply in the Keynes system is exogenously or endogenously determined is ambiguous.
- According to Milton Friedman, the measure of economic science is not reality of assumptions but accuracy of predictions.
- 3. A higher interest rate will induce a higher velocity of money.
- 4. For given private saving and investment, the larger the budget deficit, the larger the trade deficit.
- 5. The real business cycle (RBC) theory argues that changes in money supply do not cause major changes in output.
- According to endogenous growth theory, nations with a high savings rate would experience a high long-term growth rate.
- 7. Hyman Minsky's "financial instability hypothesis" (FIII) states that investment is the source of the fluctuations of the economy.
- The marginal propensity to consume out of permanent income is greater than the marginal propensity to consume out of transitory income.
- Problems (10 points): Answer only one of the following questions. Show all your work and the formula you used to arrive at your answer.
- You are given the following simple Keynesian model of an open economy:

$$C=65\pm0.7Y$$

$$I = 125$$

$$G = 65$$

$$X = 85$$

$$M = 30 + 0.2Y$$

- (a) In equilibrium, does this economy experience a trade surplus or a trade deficit? (5 points)
- (b) If investment falls to I = 95, what is the trade balance of this economy? (5 points)



财政等系

e And Date, Period 4月23日 **減組編集** 

3 - 3

- 2. (An Endogenous Growth Model) Consider an economy whose production function is  $Q = K^{\theta}(AL)^{1-\theta}$ , with A = 4(K/L). Assume that it has a savings rate of 0.2, a population growth rate of 0.1, an average depreciation rate of 0.1, and that  $\theta = 0.5$ .
- (a) Reduce the production function to the form  $q = \alpha k$ . [Note: q = Q/L and k = K/L.] What is  $\alpha$ ? (5 points)
- (b) What is the growth rate of output? (5 points)

Z. F. Essay Questions (15 points): Answer only one of the following questions.

- 1. (Diagrammatically answer this question) Suppose that the discovery of large oil deposits have substantially increased the world supply of oil (or energy in general). As a result, the relative price of energy falls. Further assume that energy and labor are complements in production. Use the classical model to demonstrate the impact of this change in oil supply on the following variables. Be sure to state all relevant assumptions.
  - a price level b real output e employment d real wage e nominal wage
- Consider the following fixed price Keynesian model.

$$Y = C(Y - T) + I(r) + G$$

$$\frac{M^d}{P} = L(Y, r + \pi)$$

$$M'' = M$$

Calculate the effect of an increase in taxes on income.

考試科目 Course	會計學	亲奴	财政所	н Ми Date, Period	4 A 23	日 放題編號 節 CourseNo.	
(-:	) 選擇題(56 分):	答對1題得2次 未答者不給分別	分・答錯倒: 5.不扣分。 <b>5</b>	11分(總 「用 <b>僅有</b> +	分 56 分扣完別 ニメキ <b>功 熱</b>	8止)・农 <i>年</i> 員 2計算机。	4 -
1. Ao	cording to the FASB'	s conceptual fra Reliability	mework, pre	dictive value Relevance	e is an ingredier Reliabilit	nt of	政
1	a. Yes	Yes	<b>b</b>	Yes	No		ex.
	c. No	Yes	d.	No	No		治
2.The	accounting principle a. not recognizing	e of matching is t	est demonst ess some rev	rated by enue is reali:	zed.		大學
	b. associating effor	t (expense) with	accomplish	nent (revenu	ie).		
	c. recognizing prep	aid rent receive	d as revenue.				墨
	A establishing ar	<ul> <li>Appropriation 1</li> </ul>	for Continge	ncies accour	1 <b>i</b> .		電
3.In o	order to be classified	as an extraordin	ary item in th	e income st	atement, an eve	mt or transaction	育
SHOUL	a. unusual in natur	e infrequent an	d material in	amount.			
	b. unusual in natur	e and infrequent	but it need	not be mate	rial.		
	c, infrequent and n	naterial in amour	nt. but it need	i not be unu	sual in nature.		
	d. unusual in natur	e and material h	nit it need no	t be infrequ	ent.		
4 Inc	statement of cash fl	ows receipts fro	m sales of p	roperty, plan	nt, and equipme	nt and other	
4.111 6	ductive assets should	Loenerally be cla	ssified as ca	sh inflows fi	om		
	operating activities	<ul> <li>financing act</li> </ul>	rivities. c.	investing ac	tivities. d. sel	ling activities.	
ro:	Hart Co. assigned	\$500,000 of ac	counts receiv	able to Mo	on Finance Co.	as security for a	
lon	F \$420 000 Moor	a charged a 2% c	commission o	in the amou	nt of the loan; t	he interest rate on	
108	note was 10%. Duri	no the first mon	th. Hart colle	cted \$140,0	00 on assigned	accounts after	
dec	fucting \$380 of disco	vents Hart acc	ented return	s worth \$1,3	50 and wrote o	off assigned	
000	county totaling \$3,730	0					
5 <b>F</b> 1	Q1 The amount of	cash Hart receiv	ed from Moo	on at the tim	e of the assignr	nent was	
₩. <b>L</b> .	a. \$378,000.			\$411,600.	d. \$420,0	00.	
6 T	Q1 The entries to r	ecord the collect	tions during t	he first mor	th would include	ie a	
	lebit to Cash of \$140		debit to Ba	d Debts Exr	ense of \$3,730		
a. 0	lebit to Allowance fo						
d c	redit to Accounts Re	ceivable of \$145	5.460.				
7 Co	or Co. received merc	handise on cons	ignment. A	s of March	31, Cass had re	corded the	
tro	nsaction as a purchas	se and included t	he goods in	inventory.	The effect of th	nis on its financial	
oto	tements for March 3	1 would be					
310	a no effect						
	h net income was	correct and curre	ent assets an	d current lia	bilities were ov	erstated.	
	c. net income, curr	ent assets, and c	urrent liabilit	ies were ov	erstated.		
	d not income and o	current liabilities	were overst	ated.			
8.Bv	ed Co. accepted deli-	very of merchan	dise which it	purchased o	n account. A	s of December 31.	,
By	and had recorded the	transaction, but	did not inclu	de the merc	handise in its in	ventory. The effec	t
of	this on its financial s	tatements for De	ecember 31 v	vould be			
	a net income, curt	ent assets, and r	etained earni	ngs were un	derstated.		
	b net income was	correct and curr	ent assets we	ere understa	ted.		
	c. net income was	understated and	current liabil	lities were o	verstated.		
	d. net income was	overstated and o	current assets	were under	rstated.		
9 Tr	produce an invento	ry valuation whi	ch approxim	ates the low	er of cost or ma	arket using the	
0.00	onventional retail inv	entory method, t	he computat	ion of the ra	itio of cost to re	etail should	
~ ~	<ul> <li>a. include markup.</li> </ul>	s but not markde	owns. b.	include mar	kups and mark	downs.	
	c. jenore both may	kups and markd	lowns d.		kdowns but no	t markups.	
10.1	When calculating the	cost ratio for th	e retail invet	itory method	1,		
Я	if it is the convention	nal method, the b	eginning inv	entory is inc	luded and mark	cdowns are	
200	deducted						

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		he beginning inventory is					
		he beginning inventory is					d.
d. if	it is the conventional me	ethod, the beginning inver	itory is exch	uded and	markdov	wns are not	

- deducted.
- 11. On January 1, 1991, Edge Corporation purchased for \$31,000, equipment having a useful life of ten years and an estimated salvage value of \$1,000. Edge has recorded monthly depreciation of the equipment on the straight-line method. On December 31, 1999, the equipment was sold for \$5,000. As a result of this sale, Edge should recognize a gain of
  - a. \$0. b. \$1,000. c. \$1,900. d. \$5,000.
- 12. Which of the following principles BEST describes the current method of accounting for research and development costs?
  - a. Associating cause and effect
- b. Systematic and rational allocation
- Income tax minimization
- d. Immediate recognition as an expense
- 13. Reyes Corporation, which has a calendar year accounting period, purchased a new machine for \$30,000 on April 1, 1994. At that time Reves expected to use the machine for nine years and then sell it for \$3,000. The machine was sold for \$16,500 on Sept. 30, 1999.

Assuming straight-line depreciation, no depreciation in the year of acquisition, and a full year of depreciation in the year of retirement, the gain to be recognized at the time of sale would be

- a. \$3,000.
- b. \$2,250.
- c. \$1,500.

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- 14. Gowan Products Corp. provides an incentive compensation plan under which its president receives a bonus equal to 20% of the Corporation's income in excess of \$200,000 before income tax but after the bonus. If income before tax and bonus is \$800,000 and the effective tax rate is 30%, the amount of the bonus would be
  - a. \$84,000.
- b. \$100,000.
- c. \$120,000.
- d. \$160,000.
- [O2] On January 1, 2000, Albus Co. issued eight-year bonds with a face value of \$100,000 and a stated interest rate of 6%, pavable semiannually on June 30 and December 31. The bonds were sold to yield 8%. Table values are:

Present value of 1 for 8 periods at 6%: 0.627 Present value of 1 for 8 periods at 8%: 0.540

Present value of 1 for 16 periods at 3%: 0.623 Present value of 1 for 16 periods at 4%: 0.534

Present value of annuity for 8 periods at 6%: 6.210

Present value of annuity for 8 periods at 8%:5.747

Present value of annuity for 16 periods at 3%: 12.561

Present value of annuity for 16 periods at 4%:11.652

- 15. [Q2] The present value of the principal is a. \$53,400. b. \$54,000. c. \$62,300. d. \$62,700.
- [O2] The present value of the interest is a. \$34,482. b. \$34,956. c. \$37,260. d. \$37,683.
- 17. [O2] The issue price of the bonds is a. \$88,356. b. \$88,482. c. \$88,956. d. \$99,960.
- [O3] Jay Co. had issued 100,000 shares of \$10 par common stock for \$1,200,000. Jay acquired 10,000 shares of its own common stock at \$15 per share. Three months later Jay sold 5.000 of

these shares at \$19 per share.

- 18. [O3] If the cost method is used to record treasury stock transactions, to record the sale of the 5,000 treasury shares. Jay should credit
  - a. Treasury Stock for \$95,000.
  - b. Treasury Stock for \$50,000 and Paid-in Capital from Treasury Stock for \$45,000.
  - c. Treasury Stock \$75,000 and Paid-in Capital from Treasury Stock for \$20,000.
  - d. Treasury Stock \$75,000 and Paid-in Capital in Excess of Par for \$20,000.
- 19. [O3] If the par value method is used to record treasury stock transactions, to record the sale of the 5,000 treasury shares, Jay should credit
  - a. Treasury Stock for \$95,000.
  - b. Treasury Stock for \$50,000 and Paid-in Capital in Excess of Par for \$45,000.
  - c. Treasury Stock for \$50,000 and Paid-in Capital from Treasury Stock for \$45,000.
  - d, Treasury Stock for \$75,000 and Paid-in Capital from Treasury Stock for \$20,000.