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15.501/15.516 **Corporate Financial Accounting**

Final Examination December 15, 2009

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Instructions:

- 1) The exam length is 1 hour and 30 minutes.
- This exam is 14 pages long (including the cover page). Please make sure your copy of 2) the exam is not missing any pages.
- A non-programmable calculator may be used for computation purposes during the 3) exam. You are also permitted to use a single 8.5"x11" cheat sheet. No other materials are to be used during the exam.
- Write your answers in the space provided and show any supporting computations you 4) make. Do not attach additional material.
- If you feel assumptions are necessary to answer a question, state all assumptions 5) clearly. Just 1 pauther Exam

Manage your time efficiently.

Question **Possible Points Actual Points** 1 10 2 6 3 20 4 24 5 5 6 28 7 15 **Total** 108

Op-interest tolelands Investing = ppf assets + 4n langables

reclepts

Short term

Question 1 - Cash Flow (10 points)

Financing = Stock + treasury stock

Formation of investments (60nds, etc.) except cash

Par Market Shidures

Classify the following transactions of the current period as an operating, investing, or financial activity in the statement of cash flows.

	T	ype of Cash F	Flow	
	(Circle the correct type)			
Disbursement of \$96,900 to merchandise suppliers.	Operating	Investing	Financing	
Receipt of \$200,000 from issuing common stock.	Operating	Investing	Financing	
Receipt of \$49,200 from customers for sales made this period.	Operating	Investing	Financing	
Receipt of \$22,700 from customers this period for Sales made last period.	Operating	Investing	Financing	
Disbursement of \$100,000 to redeem bonds at maturity.	Operating	Investing	Financing	
Disbursement of \$16,000 for interest expense on debt.	Operating	Investing	Financing	
Disbursement of \$40,000 to acquire land.	Operating	Investing	Financing	
Disbursement of \$25,300 as compensation to employees.	Operating	Investing	Financing	
Disbursement of \$53,800 for a patent purchased From its inventor.	Operating	Investing	Financing	
Disbursement of \$19,300 as a dividend to shareholders.	Operating	Investing	Financing	

it involves shareholders 3 carny

Question 2 – Cash Flows (6 points)

(a) Indirect method(b) Operating activities(c) Statement of cash flows

Match each of the following items a through f with the appropriate definitions 1 through 6.

(e)]	Financing activities Direct method Investing activities	
		come and then adjusts the net income amount by
	_ (2) A financial statement that repo accounting period, and classifie	orts the cash inflows and cash outflows for ar
e	major items of operating cash	ovided (used) by operating activities that lists the receipts, and then subtracts the major items of
£		ng and collecting notes receivable or purchasing vestments in other than cash equivalents and
2	(5) Transactions with a company's of	owners and creditors that include obtaining cash the amounts borrowed, and obtaining cash from
	(6) Activities that involve the produ	action or purchase of merchandise and the sale o including expenditures related to administering

Question 3 – Cash Flows (20 points)

Warren Corporation is preparing a statement of cash flows using the indirect method. Account balances for December 31, 2007 and December 31, 2008 appear below:

	2007	→ 2008
Cash	223,200	174,000 - 49, 200
Accounts receivable	327,600	306,000 - 2/600
Inventories	645,600	579,600
Plant, property and		-66,000
equipment	776,400	1,112,400 + 336,000
Accumulated depreciation	446,400	499,200
Marketable securities	36,000	33,360 +57,800
		2,640
Accounts payable	126,000	179,360 + 53,360
Notes payable	360,000	400,000 + 1/0,000
Common stock	600,000	600,000
Retained earnings	476,400	526,800 +50,400
		00,100

During 2008, Warren Corporation did not sell any equipment. Net income was \$100,400.

Prepare a full statement of cash flows for Warren Corporation using the indirect method.

Operating			adage in adag
Net Income		100,400 V	Cash matters.
Decrease AR		+ 21,600 V	no I think
Decrease In		+ 66,000 V	
Depreciation		+52,800 /	
Sec		+2,640 8	
MAP	999	a + 53,360€	Money they have not
Notes Payable			paid Yet
Stock RE			
total	4	787,440	
don't forget t	re other	296,800 categories!	

Invoting - 336,100 Finacing Martetable Securities was in last one Whotes Parable +40,000 Stock Issued To you don't include Dividands -9150,000 7 mist assine M Change in AF = NI-Dividends Dividends = NI- DRF

So total change in cash match Balance shoot

Roe - Net income Collect - Collect Assets

Collect Liabilities

Question 4 - FSA (24 points)

Indicate the immediate effects ("+" if it increases, "-" if it decreases, and "NE" if there is no effect) of each of the following independent transactions on (1) the rate of return on common shareholders' equity; (2) the current ratio, which starts at 1 before the following transactions are included; and (3) the debt to equity ratio (defined as total liabilities divided by shareholder's equity). Treat each transaction separately. If needed, state any assumptions you make.

- a. A firm purchases, on account, merchandise inventory costing \$205,000.
- b. A firm sells for \$150,000, on account, merchandise inventory costing \$120,000.
- c. A firm collects \$100,000 from customers on accounts receivable.
- d. A firm pays \$160,000 to suppliers on accounts payable. Agets & Liabilities & NE
- e. A firm sells for \$10,000 a machine costing \$40,000 and with accumulated depreciation of \$30,000.
- f. A firm declares dividends of \$80,000. It will pay the dividends during the next accounting period. - 1 changes Se ?? All No - (great)
- g. A firm issues common stock for \$75,000.
- h. A firm acquires a machine costing \$60,000. It gives \$10,000 cash and signs a note for \$50,000 payable five years from now for the balance of the purchase price.

_	Transaction	ROCE	Current Ratio	Debt to Equity Ratio	
	a.	NE-	NE	TO	
	b.		balanes off	ALT CACA	lica
	c.	NE	NE	NE O TOP 1	set at n
	d.	NE	balances NF	JO ON C	(t)
	e.	NE	+10,000-	10,600 (? NF @	
	f.	Mecchanes RE, LSE		7 8	
	g.) NE / DE	Touch in		
	h.	NE VE	NF	T	
aln		Cante out accomplate dep as w Cash A + 10,000 Acc Dep A + 30,000 Asset A Caln		10 rs oda NF	

Question 5 (5 points)

- An extraordinary item must meet which of the following two criteria? (1.)
 - a. Foreseeable and material.
 - (b.) Infrequent and unusual.
 - c. Substantial and measurable.
 - d. Unusual and measurable.
- (2.)Which of the following ratios is likely to be the *least stationary* over an extended period?
 - a. Debt to total assets ratio.
 - b. Asset turnover.
 - (c.) Return on assets.
 - d. Interest-bearing debt to total assets ratio.
- (3.)Which of the following is not typically a characteristic experienced by a company during the introductory phase of the corporate life cycle?
 - a. Cash used in operations will exceed cash generated by operations.
 - b. Considerable cash will be used to purchase productive assets.
 - (c.) Cash from investing is positive.
 - d. Cash from financing is positive.
- (4.)The information in the following table is from the statement of cash flows for a company at four different points in time (Period 1, Period 2, Period 3, and Period 4). Negative values are presented in parentheses.

	Period 1	Period 2	Period 3	Period 4
Cash provided by operations	\$ (180,000)	\$ 90,000	\$ 360,000	\$ (30,000)
Cash provided by investing	(300,000)	75,000	90,000	(120,000)
Cash provided by financing	210,000	(330,000)	(150,000)	360,000
Net income	(120,000)	30,000	300,000	(15,000)

Based on this information, which of the following answers most likely corresponds with the introductory phase, growth phase, maturity phase, or decline phase?

- a. Period 2, Period 1, Period 3, Period 4.
- b.) Period 1, Period 4, Period 3, Period 2.
- c. Period 3, Period 4, Period 1, Period 2.
- d. Period 4, Period 1, Period 2, Period 3.
- (5.)Indian River Groves in central Florida lost about 10% of its oranges (or \$750,000) due to frost. Based on this information, how will Indian River Groves most likely report this loss? aclary on taxes
 - (a,) As an extraordinary item net of taxes.
 - b. Below discontinued operations.
 - As a pretax ordinary loss prior to income before income taxes.
 - d. As a discontinued operation net of taxes.

Thy ording?

Question 6 (28 points)

46,900

Events related to Trans Allied Insurance's investments of temporarily excess cash appear below.

		996.6	Market Valu			
Security	Date Acquired	Acquisition Cost	2006	2007	Date Sold	Selling Price
JT Marlin	06/14/2006	\$12,000	\$13,500	\$15,200	02/15/2008	\$14,900
Jackson Steinem	06/14/2006	29,000	26,200	31,700	08/22/2008	28,500
Gekko Co.	06/14/2006	43,000	43,500	200 <u>1</u> No	10/11/2007	43,700

None of these three securities paid dividends. These are non-strategic (passive) investments. Assume that the accounting period is the calendar year. Ignore taxes.

Instructions:

etions:

Assume the firm classifies these investments as Available for Sale Prepare journal

	Assume the firm classifies these	THE PROPERTY OF THE PROPERTY O	2 0
	entries or use the Balance Sheet F account for its investments upon t		
	Acquisition of securities	(1-1)	who to do we taxe
alad	Revaluation on 12/31/2006	611	LATERA ICIXUS
oh tay marted	Sale of securities	Wag 120	1 - tale away from
journal entries	The same	1 Inhilities + Contrib	t RE other equity
journal entites h	re the Cash + Noncash =	Lauren 4	en pay tax at end
ID CONT	Quas Quas		
A Cquieition	-84,000 -84,000		¥ *
6/14/66	AFS Investments		
0 1		-800	No Charge
Regual	-800	Other	On incore statement
(2/3)/07	AFS	Equity	Color Sightanan
1401101	Investments	Other Compre	Phonois
	2.10 (0	to.a.	From (
(11	+ 43,700 - 43,500 Yes (ash AFS Investment V	old rate	(1.)
50ld 10/11/07	+ 43,700 - 43,500	-500 0th/	+700 (don-
10/11/07	(ash AFS Investment	E	Investigation
		L-40	Income gressing
0			(Investment
Reeud	t 7,700	+7,200	Cash flow)
12/31/07	t 7,200 AFS Investment	Offer	(0)
	Threat M	Egulty	
5.10	1.61	1,000	
Sale 2/15/08	+1.4,900 - 15,200	7 - 3,200	+2,900
2/13/00	Cash AFS	Other	Investment Incom
	1	c 1 pails	
	L'one	more (flip)	Figured it out well

Sale 8/22/08	+28,500 (ash	-31 AFS	Investments			-2700 other. equity	-500 Invector Incomp	ent (1065)
-	Security JT Marlin Jackson Steinem Gekko Co.	Date Acquired 06/14/2006 06/14/2006 06/14/2006	Acquisition Cost \$12,000 29,000 43,000	2006 \$13,500 26,200 43,500	2007 \$15,200 31,700	Date Sold 02/15/2008 08/22/2008 10/11/2007	Selling Price \$14,900 28,500 43,700	
b	. Assume the firsecurities on reclassification of these securit the Balance Sh	12/31/2007. on this dates on 02/15 eet Equation	How will te? How wis 5/2008 and on. Ah	Il Trans A Ill Trans Al 08/22/2008? I d'd l	Allied Insulied Insuring Please us	urance accountse either jour	ount for the total entries of	is es
"Sell" 12/31/07	+ 46,900 Cash	-39,700 AFS &c	7805555	Li bas o f	1300 40CI was loss before	t Going	900 from viitles	took a lot of nor to the
Prahase 12/3/07 Sell 2/15/08		+46,900 T sec -15,7 T sec	00			- 30 Realize Gain	from	10 15,
Sell 8/22/08	f 28,500	Train				- 320 Gain	,	
Combined 1.	st two -	39,760 AFS sec 46,900 J T sec	they lecon	+13 Ad	00 ICI		om sec	

Market	Value on	Dec 31
--------	----------	--------

	Date	Acquisition				Selling
Security	Acquired	Cost	2006	2007	Date Sold	Price
JT Marlin	06/14/2006	\$12,000	\$13,500	\$15,200	02/15/2008	\$14,900
Jackson Steinem	06/14/2006	29,000	26,200	31,700	08/22/2008	28,500
Gekko Co.	06/14/2006	43,000	43,500	(1)	10/11/2007	43,700

c. (For this part, ignore the reclassification in part b.)

don 4 remember

Same for others as

As discussed in lecture, SFAS 159 gives management the option to elect fair value accounting for many financial assets for fiscal years beginning after 11/15/2007. (If the election is not made, SFAS 115 - which Trans Allied Insurance has been using in parts a. and b. – applies.)

For this part, assume that Trans Allied Insurance elects to use fair value accounting under SFAS 159 for its holdings of JT Marlin and Jackson Steinem on (11/15/2007, when these holdings have market values of \$15,000 and \$30,500 (respectively). On this date, Trans Allied Insurance makes the necessary cumulative adjustment to retained earnings and updates the assets' values in the balance sheet.

What journal entries will Trans Allied Insurance make on 12/31/2007 and when

it sells its holdings of JT Marlin and Jackson Steinem? IT what is the diff again - since can see market price no difference? FV is like trading TSO exactly like b? EXCPPT different valvations at that date and diff late but if we don't 11/15/07 +45,500 -39,700 (ash AFS Sec +1300 AOCT (ombred 10 -37,700 AFS SEC 11/15/07 +45,500 FV sec Readist +1400 12/31/07 Uncecegnized gan

Question 7 (15 points)

Instructions:

a. Using the attached financial statements, calculate the cash collection cycle for Company A and Company B. Show all supporting calculations. (Assume all sales are made on account.)

Gord (CC = OC - Pays in AP) year what I had on my sheet

Yeah answer in days

Days in AP = Aug AP 365 91981 365 = 3,07 28,4 Supplier purchases problem 1,181,283 way off-wrong company

Days intm = Avy Inventory , 365 = 279,179 , 365 = 68,75 V

Days in AR = Aug AR - Aug AR . 365 = 261,687 . 365 - 52,41 V DSG (5ales) = 5ales 28.4 52.41 + 68.75 - 3.82 = 118.44 92.2

All Pulhases = COGS, + change in inventory

I still just this Answer:

Company B

Company A

77.4

B

$$\frac{1,163,174}{11,083,910} \cdot 365 = 38,30 \text{ close } -again A in inv}$$

$$\frac{1,024,24600}{11,083,900} \cdot 369 = 33,77$$

$$\frac{1,055,596}{12,039,759} \cdot 365 = 37,03$$

$$32,03 + 33,72 - 38,30 = 27,45$$

27,8 clase

b. One of these companies is The Toro Company, a Minnesota-based company that manufactures lawn and garden equipment, and the other is Land O'Lakes, a Minnesota-based dairy products company. Based on the your calculations in part a., which company corresponds to Company A and which company corresponds to Company B? (Explain your reasoning in no more than 3 sentences.)

Plairy-shorter inventory
Needs to pay fainers quickly
Stores pay slowly
That 3# put me off
for AP

Company A

Company B

Answer:

Land O'Loles

A much longer cycle (twice)

- fits manufacturing

Company A Income Statement

For the period en	ding December	31st, 2008
-------------------	---------------	------------

For the period chaing December	31 , 2	000
Net sales	\$	1,878,184
Cost of sales		1,225,474
Gross profit		652,710
Selling, general, and administrative expense		454,301
Earnings from operations		198,409
Interest expense		(19,333)
Other income, net		2,213
Earnings before income taxes		181,289
Provision for income taxes		61,638
Net earnings	\$	119,651

Company B Income Statement

For the period ending December 31st, 2008

For the period ending December	31	, 2008
Net sales	\$	12,039,259
Cost of sales		11,083,910
Gross profit		955,349
Selling, general and administrative		756,606
Restructuring and impairment charges		2,893
Gain on insurance settlements		(10,638)
Earnings from operations		206,488
Interest expense, net		63,232
Other income		(12,028)
Equity in earnings of affiliated companies		(34,972)
Minority interest in earnings of subsidiaries		16,128
Earnings before income taxes		174,128
		1.7
Income tax expense		14,508
Net earnings	\$	159,620

Company A Comparative Balance Sheets As of December 31, 2007 and December 31, 2008

	As of December 51, 2007 and December 51	mber 31	, 2000	
ASSETS			2007	2008
	Cash and cash equivalents	\$	62,047	99,359
	Total receivables, net		283,115	256,259
	Inventories, net		251,275	207,084
	Prepaid expenses and other current assets		10,677	27,491
	Deferred income taxes		57,814	53,755
	Total current assets		664,928	643,948
	Property, plant, and equipment, net		170,672	168,867
	Deferred income taxes		5,185	6,476
	Other assets		9,153	7,949
	Goodwill		86,224	86,192
	Other intangible assets, net		14,675	18,828
	<u>Total assets</u>	<u>\$</u>	950,837	<u>932,260</u>
LIABILITI	ES AND STOCKHOLDERS' EQUITY			
	Current portion of long-term debt	\$	1,611	3,276
	Short-term debt		372	2,326
	Accounts payable		90,966	92,997
	Accrued liabilities:			
	Warranty		62,030	58,770
	Advertising and marketing programs		53,765	48,412
	Compensation and benefit costs		61,462	53,898
	Income taxes		2,089	4,761
	Other		69,175	60,011
	Total current liabilities		341,470	324,451
	Long-term debt, less current portion		227,598	227,515
	Deferred revenue		10,062	9,363
	Other long-term liabilities		1,269	6,256
	Total liabilities		580,399	567,585
	Stockholders' equity:			
	Common stock, par value \$1.00		37,951	35,485
	Retained earnings		335,384	337,734
	Accumulated other comprehensive loss		(2,897)	(8,544)
	Total liabilities and stockholders' equity	<u>\$</u> _	950,837	<u>932,260</u>

Company B Comparative Balance Sheets As of December 31, 2007 and December 31, 2008

ASSETS			2007	2008
	Cash and cash equivalents	\$	116,839	30,820
	Receivables, net		1,006,931	1,104,261
	Inventories		964,515	1,083,978
	Prepaid assets		857,257	1,101,005
	Other current assets		76,357	123,504
	Total current assets		3,021,899	3,443,568
	Investments		304,013	314,487
	Property, plant and equipment, net		565,293	658,261
	Goodwill, net		280,942	277,176
	Other intangibles, net		125,004	120,982
	Other assets		122,044	166,838
	<u>Total assets</u>	<u>\$</u>	<u>4,419,195</u>	<u>4,981,312</u>
LIABILITI	ES AND STOCKHOLDERS' EQUITY			
	Current liabilities:			
	Notes and short-term obligations	\$	132,170	409,370
	Current portion of long-term debt		3,082	2,864
	Accounts payable		1,150,353	1,175,995
	Customer advances		926,240	1,045,705
	Accrued liabilities		341,421	423,494
	Patronage refunds and other member equities		, , , , , ,	,
	payable		28,065	37,751
			,	,
	Total current liabilities		2,581,331	3,095,179
	Long-term debt		586,909	531,955
	Employee benefits and other liabilities		230,444	358,404
	Minority interests		6,175	18,922
	Commitments and contingencies			
	Total liabilities	\$	3,404,859	4,004,460
	Equities:			
	Capital stock		1,701	1,611
	Member equities		937,126	947,141
	Accumulated other comprehensive loss		(61,931)	(150,277)
	Retained earnings		137,440	178,377
	Total liabilities and equities	<u>\$</u>	<u>4,419,195</u>	<u>4,981,312</u>



Corporate Financial Accounting 15.501/15.516

Final Examination December 15, 2009

SOLUTIONS

Name:

- Instructions:

 The exam length is 1 hour and 30 minutes.
 This exam is 13 pages long (including the cover page). Please make sure your copy of the exam is not missing any pages
 A non programmable calculator may be used for computation purposes during the exam You are also permitted to use a single 8 5"x11" cheat sheet No other materials are to be used during the exam.

 Write your answers in the space provided and show any supporting computations you make Do not attach additional material
 If you feel assumptions are necessary to answer a question, state all assumptions clearly

Manage your time efficiently.

Total	7	6	y,	4	ı	2	-	Question	
108	15	28	υı	24	20	6	10	Possible Points	
								Actual Points	

2

Question 1 Cash Flow (10 points)

Classify the following transactions of the current period as an oper activity in the statement of cash flows.

Circle Disbursement of \$96,900 to merchandise Operating Suppliers. Receipt of \$200,000 from issuing common stock Operating Examples and this period Receipt of \$49,200 from customers for sales made Operating this period Receipt of \$22,700 from customers this period for Operating Sales made last period Disbursement of \$100,000 to redeem bonds at maturity Disbursement of \$16,000 for interest expense on Operating debt. Disbursement of \$40,000 to acquire land Operating Comployees Disbursement of \$25,300 as compensation to Operating Comployees Disbursement of \$30,000 for a patent purchased Operating Comployees Disbursement of \$19,300 as a dividend to Operating Comployees											
Operating	Disbursement of \$19,300 as a dividend to shareholders	Disbursement of \$53,800 for a patent purchased From its inventor	Disbursement of \$25,300 as compensation to employees	Disbursement of \$40,000 to acquire land	Disbursement of \$16,000 for interest expense on debt.	Disbursement of \$100,000 to redeem bonds at maturity	Receipt of \$22,700 from customers this period for Sales made last period	Receipt of \$49,200 from customers for sales made this period	Receipt of \$200,000 from issuing common stock	Disbursement of \$96,900 to merchandise suppliers.	
THO HO HO HO	Operating	Operating	Operating	Operating	Operating	Operating	Operating	Operating	Operating	Operating	T. (Circ
	T	H	\bigcirc	H	\Diamond	7)	\bigcirc	0	7	9	yp cle

Question 2 - Cash Flows (6 points)

Match each of the following items a through f with the appropriate definitions 1 through 6.

- (a) Indirect method
- (b) Operating activities(c) Statement of cash flows
- (e) Direct method (d) Financing activities
- (f) Investing activities
- A calculation that reports net income and then adjusts the net income amount by by operating activities. adding and subtracting items that are necessary to yield net cash provided (used)
- (2) A financial statement that reports the cash inflows and cash outflows for an accounting period, and classifies those cash flows as operating, investing, or financing activities.
- (3) A calculation of the net cash provided (used) by operating activities that lists the major items of operating cash receipts, and then subtracts the major items of operating cash payments.
- (4) Transactions that include making and collecting notes receivable or purchasing and selling plant assets, or investments in other than cash equivalents and trading securities.
- (5) Transactions with a company's owners and creditors that include obtaining cash from issuing debt and repaying the amounts borrowed, and obtaining cash from or distributing cash to owners.
- (6) Activities that involve the production or purchase of merchandise and the sale of goods or services to customers, including expenditures related to administering the business.

Answer: (1) a (2) c (3) e (4) f (5) d (6) b

Question 3 – Cash Flows (20 points)

Warren Corporation is preparing a statement of cash flows using the indirect method. Account balances for December 31, 2007 and December 31, 2008 appear below:

Plant, prope equipment Accumulate Marketable	Cash Accounts receivable Inventories
rty and d depreciation securities	ceivable
776,400 446,400 36,000	2007 223,200 327,600 645,600
1,112,400 499,200 33,360	2008 174,000 306,000 579,600
	erty and 776,400 ed depreciation 446,400 securities 36,000

During 2008, Warren Corporation did not sell any equipment. Net income was \$100,400.

Prepare a full statement of cash flows for Warren Corporation using the indirect method.

Dividends = Net Income - Change in Retained Earnings = 100,400 - 50,400 = 50,000 Change in Retained Earnings = Net Income - Dividends

Total Cash Flow for the period		Dividends	Additional Borrowing	CFF		Purchase of PPE	CFI		Increase in AP	Decrease in Marketable Securities	Decrease in Inv	Decrease in AR	Depreciation	Z	CFO
(49,200)	(10,000)	(50,000)	40,000		(336,000)	(336,000)		296,800	53,360	2,640	66,000	21,600	52,800	100,400	

Question 4 - FSA (24 points)

Indicate the immediate effects ("+" if it increases, "-" if it decreases, and "NE" if there is no effect) of each of the following independent transactions on (1) the rate of return on common shareholders' equity; (2) the current ratio, which starts at 1 before the following transactions are included; and (3) the debt to equity ratio (defined as total liabilities divided by shareholder's equity). Treat each transaction separately. If needed, state any assumptions you make.

- A firm purchases, on account, merchandise inventory costing \$205,000.
 A firm sells for \$150,000, on account, merchandise inventory costing \$120,000
- A firm collects \$100,000 from customers on accounts receivable.
- A firm pays \$160,000 to suppliers on accounts payable
- A firm sells for \$10,000 a machine costing \$40,000 and with accumulated depreciation of
- A firm declares dividends of \$80,000. It will pay the dividends during the next
- A firm issues common stock for \$75,000
- 7 00 A firm acquires a machine costing \$60,000. It gives \$10,000 cash and signs a note for \$50,000 payable five years from now for the balance of the purchase price.

;	-	ά σ	f	Ġ.	ċ.	ç	b.	а	Transaction
100 1311111	No Effect	Decrease	Increase	No Effect	No Effect	No Effect	Increase	No Effect	ROCE
200000000000000000000000000000000000000	Decrease	Increase	Decrease	Increase	No Effect	No Effect	Increase	No Effect	Current Ratio
	Increase	Decrease	Increase	No Effect	Decrease	No Effect	Decrease	Increase	Current Ratio Debt to Equity Ratio

Question 5 (5 points)

- <u>:</u> An extraordinary item must meet which of the following two criteria?
- Foreseeable and material
- Infrequent and unusual.
- Substantial and measurable.
- Unusual and measurable.
- (2.) Which of the following ratios is likely to be the least stationary over an extended period?
- Debt to total assets ratio.
- Asset turnover.
- Return on assets.
- Interest-bearing debt to total assets ratio
- (3.) Which of the following is not typically a characteristic experienced by a company during the introductory phase of the corporate life cycle?
- a. Cash used in operations will exceed cash generated by operations
- Considerable cash will be used to purchase productive assets.
- Cash from investing is positive.
- Cash from financing is positive.
- (4.) The information in the following table is from the statement of cash flows for a company at four different points in time (Period 1, Period 2, Period 3, and Period 4). Negative values are presented in parentheses.

Net income (120,000) 30,000	Cash provided by financing 210,000 (330,000)	Cash provided by investing (300,000) 75,000	Cash provided by operations \$ (180,000) \$ 90,000	Period 1 Period 2
30,000	(330,000)	75,000	\$ 90,000	Period 2
300,000	(150,000)	90,000	\$ 360,000	Period 3
(15,000)	360,000	(120,000)	\$ (30,000)	Period 4

the introductory phase, growth phase, maturity phase, or decline phase? Based on this information, which of the following answers most likely corresponds with

- Period 2, Period 1, Period 3, Period 4.
- Period 1, Period 4, Period 3, Period 2.
 Period 3, Period 4, Period 1, Period 2.
- Period 4, Period 1, Period 2, Period 3.
- (5.) Indian River Groves in central Florida lost about 10% of its oranges (or \$750,000) due to frost. Based on this information, how will Indian River Groves most likely report this
- As an extraordinary item net of taxes.
- Below discontinued operations.
- As a pretax ordinary loss prior to income before income taxes.
- As a discontinued operation net of taxes.

Question 6 (28 points)

Events related to Trans Allied Insurance's investments of temporarily excess cash appear below.

			Market Value	on Dec 31		
	Date	Acquisition				Selling
Security	Acquired	Cost	2006	2007	Date Sold	Price
JT Marlin	06/14/2006	\$12,000	\$13,500	\$15,200	02/15/2008	\$14,900
Jackson Steinem	06/14/2006	29,000	26,200	31,700	08/22/2008	28,500
Gekko Co.	06/14/2006	43,000	43,500		10/11/2007	43,700

None of these three securities paid dividends. These are non-strategic (passive) investments. Assume that the accounting period is the calendar year. Ignore taxes.

Instructions:

- Assume the firm classifies these investments as Available for Sale. Prepare journal entries or use the Balance Sheet Equation for the events related to these investments (include dates):
- Acquisition of securities
- Revaluation on December 31 of 2006 and 2007 Sale of securities

06/14/2006 Dr Marketable securities, S84,000 Cr Cash, S84,000	12/31/2007 Dr Marketable securities, \$7,200 Cr Other comprehensive income, \$7,200
12/31/2006	
Dr Other comprehensive income, S800 Cr Marketable securifies, S800	Dr Other comprehensive income, \$7,200 Cr Accumulated other comprehensive income, \$7,200
Dr Accumulated other comprehensive	02/13/2008
Cr Other comprehensive income, \$800	Dr Cash, \$14,900 Dr Accumulated other comprehensive
10/11/2007	income, \$3,200
Dr Cash, \$43,700	Cr Marketable securities, \$15,200
Dr Accumulated other comprehensive income, \$500	Cr Realized holding gain, \$2,900
Cr Marketable securities, \$43,500	08/22/2008
Cr Realized holding gain, \$700	Dr Cash, \$28,500
	Dr Accumulated other comprehensive

Market Value on Dec 31

Ė.	ı			1	
b. Assume the firm wants to reclassify JT Marlin and Jackson Steinem as Trading securities on 12/31/2007. How will Trans Allied Insurance account for this reclassification on this date? How will Trans Allied Insurance account for the sales of these securities on 02/15/2008 and 08/22/2008? Please use either journal entries or the Balance Sheet Equation.	Gekko Co.	Jackson Steinem 06/14/2006	JT Marlin	Security	
irm wants t 12/31/2007 n on this da ities on 02/1: heet Equatio	06/14/2006	06/14/2006	06/14/2006	Acquired	
o reclassify . How will te? How wil 5/2008 and 0	43,000	29,000	\$12,000	Cost	
JT Marlin Trans A l Trans All 8/22/2008?	43,500	26,200	\$13,500	2006	
ı and Jack Illied İnsu lied İnsura Please uso	:	31,700	\$15,200	2007 Date Sold	
son Steiner rance accoun nce accoun	10/11/2007	31,700 08/22/2008	\$15,200 02/15/2008	Date Sold	
m as Tradir ount for th t for the sal	43,700	28,500	\$14,900	Price	0-11:
F 8 5 6					

statement. Cumulative gains or losses, including those of current period, recognized on reclassification date. Subsequent market value changes reported in the income

12/31/2007

Dr Marketable securities, \$7,200 Cr Unrealized holding gain (R/E), \$5,900 Cr Accumulated other comprehensive income, \$1,300

02/13/2008 Dr Cash, \$14,900 Dr Realized holding loss (R/E), \$300 Cr Marketable securities, \$15,200

08/22/2008

Dr Cash, \$28,500

Dr Realized holding loss, \$3,200 Cr Marketable securifies, \$31,700

Dr Realized holding loss, \$500

Cr Marketable securities, \$31,700

income, \$2,700

Market Value on Dec 31

	Date	Acquisition				Selling	
Security	Acquired	Cost	2006	2007	Date Sold	Price	
JT Marlin	06/14/2006	\$12,000	\$13,500	\$15,200	02/15/2008	\$14,900	
Jackson Steinem	06/14/2006	29,000	26,200	31,700	31,700 08/22/2008	28,500	
Gekko Co.	06/14/2006	43,000	43,500	:	10/11/2007	43,700	

2. (For this part, ignore the reclassification in part b.)

As discussed in lecture, SFAS 159 gives management the option to elect fair value accounting for many financial assets for fiscal years beginning after 11/15/2007. (If the election is *not* made, SFAS 115 – which Trans Allied Insurance has been using in parts a. and b. – applies.)

For this part, assume that Trans Allied Insurance elects to use fair value accounting under SFAS 159 for its holdings of JT Marlin and Jackson Steinem on 11/15/2007, when these holdings have market values of \$15,000 and \$30,500 (respectively). On this date, Trans Allied Insurance makes the necessary cumulative adjustment to retained earnings and updates the assets values in the balance sheet.

What journal entries will Trans Allied Insurance make on 12/31/2007 and when it sells its holdings of JT Marlin and Jackson Steinem?

12/31/2007

Dr Marketable securities, \$1,400

Cr Unrealized holding gain (R/E), \$1,400

02/13/2008

Dr Cash, \$14,900 Dr Realized holding loss (R/E), \$300

Cr Marketable securities, \$15,200

08/22/2008

Dr Cash, \$28,500

Dr Realized holding loss (R/E), \$3,200

Cr Marketable securities, \$31,700

Question 7 (15 points)

Instructions:

 a. Using the attached financial statements, calculate the cash collection cycle for Company A and Company B. Show all supporting calculations. (Assume all sales are made on account.)

The eash conversion cycle is the period from when the firm spends cash on inputs until they receive payment from their customers minus the financing from creditors: CC = CC = CC = CCPayer in Ag

CCC = OC - Days in AP

The operating cycle, in turn, is the average time from purchase of inventory until collection of eash:

OC = Days in AR + Days in Inv.

Days in AR: 365 / (Net credit sales / Average AR)
Days in Inv: 365 / (COGS / Average Inv)
Days in AP: 365 / (Purchases / Average AP)

Company A.

Purchases = COGS + Change in inv.

Company A: Company A: Days in AR: 365 / [1,878,184 / 0.5*(283,115 + 256,259)] = 365 / 7.0 = 52.4Days in Inv: 365 / [1,225,474 / 0.5*(251,275 + 207,084)] = 365 / 5.3 = 68.3Purchases = 1,225,474 + (207,084 - 251,275) = 1,181,283Days in AP: 365 / [1,181,283 / 0.5*(90,966 + 92,997)] = 365 / 12.8 = 28.4CCC = Days in AR + Days in Inv - Days in AP = 52.4 + 68.3 - 28.4 = 92.2 days

Company B:

Days in AR: 365 / [12,039,259 / 0.5*(1,006,931 + 1,104,261)] = 365 / 11 4 = 32.0 Days in Inv: 365 / [11,083,910 / 0.5*(964,515 + 1,083,978)] = 365 / 10.8 = 33.7 Purchases = 11,083,910 + (1,083,978 - 964,515) = 11,203,373 Days in AP: 365 / [11,203,373 / 0.5*(1,175,995 + 1,150,353)] = 365 / 9.6 = 37.9 CCC = Days in AR + Days in Inv - Days in AP = 32.0 + 33.7 - 37.9 = 27.8 days

b. One of these companies is The Toro Company, a Minnesota-based company that manufactures lawn and garden equipment, and the other is Land O'Lakes, a Minnesota-based dairy products company. Based on the your calculations in part a, which company corresponds to Company A and which company corresponds to Company B? (Explain your reasoning in no more than 3 sentences.)

The calculations about show that Company A has a much longer cash collection cycle (more than three times longer than Company B). This would fit with a manufacturing company more than a dairy products company. This is corroborated by the operating cycle: Company A's operating cycle is approximately 4 months, or twice that of Company B. Hence, Company A is The Toro Company, and Company B is Land O'Lakes.

Company A Income Statement

Net sales Cost of sales Gross profit Selling, general and administrative	Company B Income Statement For the period ending December 31", 2008	Net earnings	Provision for income taxes	Earnings before income taxes	Other income, net	Interest expense	Earnings from operations	Selling, general, and administrative expense	Gross profit	Cost of sales	Net sales	For the period ending December 31st, 2008	income Statement
\$ 12,039,259 11,083,910 955,349 756,606	31 st , 2008	S 119,651	61,638	181,289	2,213	(19,333)	198,409	454,301	652,710	1,225,474	\$ 1,878,184	31 st , 2008	

Income tax expense	Minority interest in earnings of subsidiaries Earnings before income daxes	Interest expense, net Other income Equity in earnings of affiliated companies	Selling, general and administrative Restructuring and impairment charges Gain on insurance settlements Eurnings from operations	Net sales \$ 12,000 Cost of sales \$ 11,083 Gross profit 955
S		/		٠ <u>٠</u>
14,508 159,620	16,128 174,128	63,232 (12,028) (34,972)	756,606 2,893 (10,638) 206,488	12,039,259 11,083,910 955,349

Company A Comparative Balance Sheets

Total liabilities and stockholders' equity	Stockholders' equity: Common stock, par value \$1.00 Retained earnings Accumulated other comprehensive loss	Total liabilities	Deferred revenue Other long-term liabilities	Long-term debt, less current portion	Total current liabilities	Income taxes	Compensation and benefit costs	Advertising and marketing programs	Warranty	Accounts payable Accounts payable	Short-term debt	LIABILITIES AND STOCKHOLDERS' EQUITY Current portion of long-term debt	Total assets	Other intangible assets, net	Goodwill	Other assets	Deferred income taxes	Property plant and equipment net	Total current assets	Deferred income taxes	Prepaid expenses and other current assets	Inventories, net	Total receivables, net	Cash and cash equivalents	ASSETS	As of December 31, 2007 and December 31, 2008
is .	S.											s	ıss											S		December 31
950,837	37,951 335,384 (2,897)	580,399	10,062 1,269	227,598	341,470	2,089	61,462	53,765	62,030	90,966	372	1,611	950,837	14,675	86,224	9,153	5,185	170.672	664,928	57,814	10,677	251,275	283,115	62,047	2007	, 2008
932,260	35,485 337,734 (8,544)	567,585	9,363 6,256	227,515	324,451	4,761	53,898	48,412	58,770	92,997	2,326	3,276	932,260	18,828	86,192	7,949	6,476	168.867	643,948	53,755	27,491	207,084	256,259	99,359	2008	

Company B Comparative Balance Sheets As of December 31, 2007 and December 31, 2008

15.501 Notes Review

Journal Entities

Debits
$$(-SE, +E)$$
 100 S mate; $(\text{redits } (+A))$ 100 S mate; (Most What) $(\text{ash } (-A))$ $(\text{ash } (-A))$ $(\text{ash } (-A))$

T-Accounts

Assets(A)	Liabilities(L)	Stock (SE)	Revenue(A) Expenses (E)
00 6	Dr Cr	Dr Cr	Dollo noto
$\Gamma \cup V$	1 1	V O	V T T I
Normal !	Normal	Normal	Normal Normal

Don't take notes here - make cheat sheet!

Cash Plan 23 months to maturity transfer blu cash + cash equir not included interest + Lividands under operating Operating is basically the other cap 2 methods, direct + indirect appendix ? usual method - Only reporting of operating differs, # same - investing + financing same direct Leach Seperate Convert sales to cash recilived - so counteract change in AR " u meaned revenue Convert COGS to cash paid for merch - remove change in inventory Mar etc remove investing + financing indirect Start w/ net income/ - (emove aural things - chang in inventory - etc

ROE

Inventory Tumover Sales - (PGS Inventory Anginetory Days Inventory Oxistanding (DSI)(DIO) Inventory, 365 Accounts Payable Trinorpr - Total supplier Purchases

Avg AP Operating Cycle = DIO+ DSO - DPO
invertory Sales parble (ash Convasion Cycle (CCC) = DIO + DSO - DPO E = Same as oppositing chicle Asset Tumover Ratio - Revenue Assets (ROA is net income over assets) , textbook Quick Ratio - Corrent Assets - Inventories = Cosh + Cosh eavi Collent Liabilities Current liabilities

Current Ratio - Corrent assets current liabilities Corrent Cash Debt Corrage Ratio = Cash Current Debt Courage Ratio = Cash from Ops-Dividences Avg current liabilities Debt to Asset = do Liabilities Assets Times Inforest Earned Ratio (TIE) = FBIT Interest payable

LBIT = Earnings before Interest + Taxes Earlings = After tax net income

Rewring/Persistant - isolate honcecuring/transitory - easy to made compare the prior years + other films Restructuring charges - reorg discontinued ops - biz urits closed or sold Extraordina, items - materiale gains + lesses availty of comings - how closely match underlying econ conditions discontined ops-report (net of tox) after tax gain/loss are on in come Statement below in come from continuing ops, but attache Still in ret income extraordinary -unusuall - in freq Not/excluded - Viite downs write ofts Foreign currency gains/1955es accord adjustments to long term contracts

- gairs/losses assets/bit segs - defence againts teleové - costs related to 9/11 Report sepertly net of taxes Restrictiving Costs - like discontined apps, but not a certain biz unil · Vsvally large - sa require se perate poits - (ecord in 2 parts 1. Employée severance 2. Asset write dons/write offs Often companies make this & back - boosting income - like a big bath AOCI - More inclusive notion of comp performance than net income

- More inclusive notion of comp performance than net income

- Met income to the gains and lesses not on income statement

- foreign currency adjustments

- Unrealisted gains to losses AFS secrifies

- adjust ments to pension

- generally events outside manipeial control

Hopped Not closed out after each accounting paried

-continoues

Fair Value

Nilly trading in that gains + losses go to ret income

At FV election

-complative adistment to RE

-change in essets value on balance sheet

15.501 Reference Mare Stroyly

- leases - Cap T-auto transfer ownership - bargin purchase option - > 75% life PV payments > 40% asset value MVSt capitalize assets otherwise 4 ie depreviater + add as assets Pensions - Lid not to

Income tax expense

- taxable expenses follow diff (ule) - cash busis

- tempoary + permanent differences

Trecogniae as "providen for income taxes"

Or 11 deferred tax lubility"

-depreciaiation - MA(RS - Contract recognition date

-deforred tax asset - paid more tax upfront than financial statements say shall be paid

2)			
Tax obligation	- what you actually o	We	
	- what Am income St		
AR adjustments			
- Sales on - Collectability - net ceuli	account y cloh qualle value = total -a	llonance for uni	collectable accounts
- Aging anal	7515		
	% of sales	1.1.	
Sales #201	An	+ 100,0 RE	000
Estimate bud delots	-2,900 ARNOT	-2,9	OORTE
	Lo goes into all	ovance for bad	debts
Voite of	-500 AR +500 Lyallowane For (finally comes of f -oh now I get	uncollectable)	no ret effect on Dulance she &
	2 9 0	1.0.0	

re estimate at the end of year make we allowance for incollectables thank = your new aging analysis Pratice exam went well Very detail diven doss Nultiple choice sneaky don't leave to OFF Watch out for small things Mistales have big impact on grade! lik be sure to average Lease - calculate lease interest + capital - calc interest parment - deduct from lease asset each year - most depreciate 1) Depreciate_Asset GRE (Dep CXP) 2) Par bill Lopart to lease liability Grant from RECOM Int CXP asset not tack &

T-accords 15,501 Liabilities SE Rev ENP Pases Must be capitalized if - outo transfer amarship - boigin purchase option Journal Entries Mark to market = - 775% ofasel lie 100 100 5 same fair mle value - Pupaymets 7 90% Published price What Indirect PV=1 Intercorp Investments (1+1)# Start W/ Not Income Passive = 20% to annity + Dependion + Amort + Depletion AFS ADOL wave changes, not RE + Losses investing + firening + LAR, Inv, prepaid ex other income bought + sold + P AP, cheomed rev, accrued liab, T - nuesting each flow sincomest det tax liab - Unrealized gains + (0550)
- other income statement also change
- mortal perating lash the income of
raise or four below 2008 Direct Sales + VAR + Meored = reciepts From (OGS + PIn+ HAP = Parment for mean balance Sept - both make to market Op ex-Tit. + 1 Prepaid ex + Pacified lib - both divilants + cap gains on income - Pich at prchase = payment for exp HIM don't care about other staff - debt only -historical cost on bolonch seet ROA + ROE + cales growth cever ! -interest in operating cash flank LEV, ATR, ROS fairly steady more Statement Sig Inf 201×15090 Bonds d15 Can-- eavity accounting Calculate PV principal + PVOA Cappins - proportion of invedee's equily if preinm/discount set in cat - dividends are recorry (timestrent) Bond payable - discont = NBP -income = proportional investee = incorest.) discont reduced each year capen rate to interest expense - Cap gains = incone vincone st. What have to do to sell from Control - Consolidation discount = contra liability - balance such combined preimme = liability - income St combined - Sale, = cap gains + lossey -) incompost. amertize discont/preimen - Pay attention to taxes So effective interest expense his larger Cash, Paid tamortization discount Interest expense

(ash (BP+ Pre7=NBP RI + |513 10 + 5,3 = 15,3 -5 rate (ash orderty) liceal rate (Ash orderty) liceal Prenty (expert

Lease

1. Deprecial:

Assel

RE (Depend)

2. Pay bill

- (port) RE (int exp)

- (port) lease limbility

- cash

asset untoucked

Treasing Stock = SE

Financing cash flow

ADCI to SE

Table Windows and of RE

- not separate line

Sec Deposit = short tun

ROE = Not income ROA. Finley

Avg SE=BVE = NOPM - Asset o Earlings . Fin = NOPAT Sales NOPAT Assels NOPAT SE ROA = Net income Assets NOPAT = Net of profit after tax = Of Income (1-tax rate) = (Net incore OP Income = (ross Income - OP EXP- UPP. Recipiables - Met credit sales
Tum
Ang AR AVG (declier = DSO = Dayes · AR Cirlit Sales = Avg AR Avg Daily Sales Inventory = Sales = COGS
Tun Inventory Ano Inventory Days Inv Ave Tovertory 365 Odshading (005 . 365 DIO AP Turnovar - Total Spplipe Porchases
Aug AP Of Cycle
Cash Conversion Cycle - DIO + DSO-DAO
OF EYELE Asst Thoras Revolve Avg Assets Quick Rotto = Curent Assets-Inventories Corrent Liabilities = (dsh + cash - eq Corrent Plabilities)

Conent Ratio = Corrent Assets
Conent Liabilities Current Cash Pebt Coupage Ratio = Cash Current Debt Covarage Ratio = (ash From Ops - Dividents Ava culent Liabilities Debt to Asset = Liabilities Earned - FBIT Interest payable EBTT = Fernings before in thest + taxes Edinings = Affa fan net income Out to - Total Liquililles Equil, Total SF Malet to = Marlet Valve Book Valve Free Cath - Cach Flow from Ops - Cap Ex - Diridands Net Op Profit Main = NopAT Sales NOPH ARTHORN Sales
ART Avg AR Ava Collect - Ava MA Prind Auguary Sules OPM = Gross profit total Sales Gross polit = Net sales-(065 no employees, rent dedicted, etc Net sales = Sales - Returns Net Incore = Good Rotit - Op Ex-taxes-Integer Invt = COGS Avg Inv PPE Tun = Sales levenie PPET AGPPE 90 Depreciation = Accumulated Dep Cost of dep. acsets

OCFL = Net cash from ops total liabilitie, On cash flowto Linbillius Effective tax - Provision for income tax explose Taxes Basic EPS - (Net income - Pertered disdurds) Weighted any # shores outstanding Diluted = (NI-PO+add backs)
EPS Aug common shares + Shares convertable assumed converted Otstarding = Aug Ap
Supplier purhases ROA = ROS. ATR = Net income , Sales Sales assets ROS = return sules = protit magin - net income Sales ATR = Asset tumorer = Gales (ash rollo = (ash+ Maletable secritic) Chent Liabilities BVE = Book values of equity = Total SE Purchases = (005 + Change in lav

Post 15.501 Final

Was Difficult
Not Fully awake all start

Forgot some details here + there

But of course curved on how other people of

A lot of details to get right

I think I did not do as well as I think pel

Propo B on exam and B+ in class