UCLA Spring 2019 ENG 111 Midterm Exam Mel Bulu Taciroglu

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100 Excellent!

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1. (10 points) Rowan just prepared its end-of-year Balance Sheet today (given below). Its tax rate is 34% and it is using a straight-line depreciation method. It does not distribute any dividends. Its competitor has exactly the same financials (same numbers for all revenue, cost, asset, liability accounts) as of today, except, it does not have any depreciation.

What is the difference between the accumulated retained earnings of Rowan and its competitor a year from today if neither company purchases or sells any fixed assets throughout the year and they grow at 0%?

			Kowan Net Income
Rowan Company Comparative Balance Sheet (dollars in millions)	Ending	Beginning	= 954-936 = 18
Assets	Balance	Balance	Con all
Current assets:			Since all
Cash and cash equivalents	\$ 70	\$ 91	Arabaka bilan (MIII)
Accounts receivable	536	572	Depreciation belongs in Net Income Calculation.
Inventory	620	580	1 15 In the second contratory
Total current assets	1,226	1,243	Dara - Dara S. A. 140 1100
Property, plant, and equipment	1,719	1,656	Roman Depreciation = 640-480
Less accumulated depreciation	640	480	
Net property, plant, and equipm	1,079	1,176	= 160
Total assets	\$2,305	\$2,419	If Rowan doesn't grow and doesn't
Liabilities and Stockholders' E	Separate Separate		21 Joseph of Grove and Ocean 1
Current liabilities:			by get Isell fixed assets,
Accounts payable	\$ 205	\$ 180	
Accrued liabilities	94	105	Net Income will stay the same.
Income taxes payable	72	88	THEY INCOME WITH STAY THE SAME,
Total current liabilities	371	373	Rowan retained earnings = 954+18
Bonds payable	180	310	novan retained parning = 454+18
Total liabilities	551	683	1
Stockholders' equity:			= 972
Common stock	800	800	The state of the s
Retained earnings	954	936	Net income = 66% × Pretax income
Total stockholders' equity	1,754	1,736	
Total liabilities and stockholders' equity	\$2,305	\$2,419	18 = 66% × (Shevenue-Cous-Depreciation-Inter-
Difference in setained earnings	4	\	- etc), Pretax income who depreciation = (18× 100) + 160

... Difference in setained earnings
= 1077.60 - 972
= 105.60

with competitor having higher
accumulated retained earnings. **

'. Pretax income who depreciation = $(18 \times \frac{100}{66}) + 160$ = 187.2727Competitor net income = $66\% \times 187.2727$ = 123.59998Competitor final retained earnings = 954 + 123.60= 1077.60

2. (5 points) When company A acquires (purchases) company B at a higher price than the acquired company's total assets, company A's Goodwill Account as well as its Equity will go up.

Do you agree? Explain with one sentence.

Ho No Yes, the Goodwill Account will increase because of the prite difference between price and Company B's total assets, and Equity will go up because company A move over equity to not necessarily go up because company A could've used long-term debt to finance the purchase for example.

3. (5 points) Takeover threat cannot be considered as a mitigating factor agency problem.

Do you agree? Explain with one sentence.

I do not agree. Because if a company is taken over, usually the process includes some consolidation of departments at employees especially managers so managers will wish for a higher stock price for fear of losing their job in the event of a takeover.

- 4. (5 points) Which of the following events would not change the Total Equity of a company in the short run:
- a) purchasing company's own stock
- b) selling new stock,
- c) an economy-wide slowdown
- d) increasing dividend payout ratio
- e) none of the above
- 5. (5 points) A company that has consistently high EBIT but low NI cannot be a good candidate for takeover.

Do you agree? Explain with one sentence.

Could Can't Diffi No. I don't agree because the company could be taking on high levels of debt (thus leading to high interest expense) to finance lurrative growth opportunities in which case the company might be a good candidate for takeover.

6. (5 points) A company purchases a fixed asset using funds obtained from investors. Then, we know that fixed assets will go up and equity will go down among other changes on the Balance Sheet.

Do you agree? Explain with one sentence.

No, assets must equal equity and liabilities so equity must go trup in order to balance the inverse in 26sets.

7. (5 points) The Stockholders Equity of a company is given below. How much did this company collect from the markets by selling stock at the time of the sale if the company did not issue new stock after its IPO?

Stockholders' Equity	
Common Stock	26,000
Capital Surplus	196,000
Treasury Stock	-4,500
Accumulated Retained Earnings	73,500
Total Stockholder Equity	291,000

It collected (26000+196000) =\$222,000 x



<u>Debt</u> Equity	FA+ (A= E+	Î
Lquity		

8. (5 points) A firm has a financial objective of keeping its debt to equity ratio constant. Which of the following is most likely to happen if the firm makes a loss and does not sell any stocks or any of its fixed assets?

A. short term debt will rise

B. long term debt will rise

Retained earnings 1 =7 Equity 1

either short or long term debt or both will rise let working capital will fall - my answer

- 9. (5 points) A company purchases an equipment to be used for 4 years in 2014 for \$20,000. If the company is using straight line depreciation method and if the tax rate is 34%,
- A. interest is deducted from income and increases the total taxes incurred.
- B. the tax rate is applied to the earnings before interest and taxes when the firm has both depreciation and interest expenses.

C. depreciation is shown as an expense but does not affect the taxes payable.

D. depreciation reduces both the pretax income and the net income.

- E. interest expense is added to earnings before interest and taxes to get pretax income.
- 10. (5 points) Which one of the following is a capital budgeting decision?

A, determining how much debt should be borrowed from a particular lender

B. deciding whether or not to open a new store

C. deciding when to repay a long-term debt

D. determining how much inventory to keep on hand

- E. determining how much money should be kept in the checking account
- 11. (5 points) Which one of the following statements concerning a sole proprietorship is correct?

A. A sole proprietorship is the least common form of business ownership.

B. The profits of a sole proprietorship are taxed twice. χ

C. The owners of a sole proprietorship share profits as established by the partnership agreement. X

D. The owner of a sole proprietorship may be forced to sell his/her personal assets to pay company debts.

E. A sole proprietorship is often structured as a limited liability company.

12. (10 points) For the first time, UBER will make its financial statements available to the public when they IPO. As we talked in class, some information can be inferred from these statements and some cannot. Here is a list of things that you would like to know about the company. Circle the ones that CAN BE inferred directly from the Financial Statements:

Debt/Equity Ratio

UBER's Market Share

Future Growth Opportunities

Patents that UBER holds

Price that is paid to mage and future potential for the companies UBER acquired to date)

Human Capital used by UBER

13. (5 points) Draft a common-size income statement for a hypothetical firm using the following information: The tax rate is 50%. Net income, Depreciation, and Interest Expense are each 10% of Sales. Cost of Goods Sold is six times as big as Depreciation.

Sales 100
COGS 60
Represiation 10
EBIT 30
Interest Expense 10
Pretax league 20
Tax (50%) 10

Not lacemo 10



14. Valyrian Inc.'s Balance Sheet and Income Statement as of Dec 31st 2018 are given below. Company has a dividend payout ratio of 0.5 and has no plans of issuing new stock or repurchasing its existing stock in the near future.

Please choose one of the scenarios below to produce the pro-forma statements of Valyrian for 2019. Scenario A is easier. Scenario B has bonus points. Please do not answer both questions. If you answer both, we will grade only scenario B.

Scenario A (25 points) Sales grow at 20%. Assets, accounts payable, NWC, COGS, SG&A costs grow at the same rate as sales. Annual depreciation cost stays the same. The conditions in the capital markets are such that short term borrowing is possible for any company but long term borrowing is available at a cost of 5% per year for those companies with a D/E less than 2 and at a cost of 10% for those with a D/E greater than 2. Produce the pro-forma income statement and balance sheet of Valyrian for Dec 31, 2019.

Scenario B (25 points plus 6 bonus points) Company uses only its internal funds to grow, no new long term debt will be obtained. That is, long term debt will stay the same. Assets, accounts payable, NWC, COGS, SG&A costs grow at the same rate as sales. Annual depreciation cost stays the same. The conditions in the capital markets are such that short term borrowing is possible for any company. Any existing long term debt has a cost of 5% interest per year for those companies with a D/E less than 2 and a cost of 10% interest for those with a D/E greater than 2. Produce the pro-forma income statement and balance sheet of Valyrian for Dec 31, 2019. What is the maximum rate Valyrian can grow at using only its internal sources?

Balance Sheet			
All numbers in thousands			
Period Ending	12/31/18	Scenario A	Scenario B
Current Assets			,
Cash And Cash Equivalents	12,000	14,400	
Account Receivables	1,400	1,680	
Inventory	3,600	4,320	
Total Current Assets	17,000	20,400	
Long Term Investments	326,000	391,200	
Net Property Plant and Equipment	278,000		3,600 130
Net Goodwill	151,000	181,200	
Net Intangible Assets	57,000	88,400	
Total Fixed Assets	- 812,000	950,400	
Total Assets	829,000	910,800	
Current Liabilities			
Accounts Payable	10,000	12,000	100
Notes Payable	2,000	(3,400	2,400
Total Current Liabilities	12,000	15,400	
Long Term Debt	526,000	659,083	
Total Liabilities	538,000	674,483	
Stockholders' Equity			
Common Stock	26,000	26,000	
Capital Surplus	196,000	196,000	
Treasury Stock	-4,500	-4,500	H
Accumulated Retained Earnings	73,500	78,817	
Total Stockholder Equity	291,000	296317	
Total Liabilites and Stockholders Equity	829,000	970,800	

Income Statement All numbers in thousands			
Revenue	12/31/18	Scenario A	Scenario B
Total Revenue	200,000	240,000	
COGS	80,000	96,000	
Selling,Gen&Adm Costs	34,000	40,800	
Depreciation	20,000	24,000	
Earnings Before Interest and Taxes	66,000	79,200	
Interest Expense	26,300	65,908	
Income Before Tax	39,700	13, 292	
Tax Expense(20%)	7,940	2,658	
Net Income	31,760	10,634	

(New depreciation Net Property Plant & Equipment = (1.2×278000)-24000 309600

I Since assets grew at same rate as sales, I took 1.2x All and assets.

Let interest expense be x.

Income before tax = 79200-x

Tax expense = 0.2 (79200-x)

Net income = 0.8(79200-x)

Accumulated retained earnings = $73500 + 0.5 \times 0.8(79200 - \infty)$

= 73500+0,4 (79200-20)

Total stockholder equity = 26000+196000-4500+73500+0.4 (79200-20)

= 322680 - 0.4x

Total liabilities = 970800 - (322680-0.4x)

= 0.4x + 648120

Long-term debt = 0.4x+648120-15400

 $D_{/E} = 0.4x + 632720$ $\frac{0.4x + 648120}{322680 - 0.4x}$

Even if x=0, P/E >2 so x= 10% x Long-term Debt

 $\alpha = 0.1 (0.4x + 632720)$

0.96x = 63272

DC = 65908

Market Value Measures	Market Capitalization = Price per share * # Shares Outstanding P/E Ratio = Price Per Share / Earnings Per Share Market to Book Ratio = Market Value per Share / Book Value per Share
External Financing Formulas	$EFN = \left(\frac{\text{Assets}}{\text{Sales}}\right) \times \Delta \text{Sales} - \frac{\text{Spon Liab}}{\text{Sales}} \times \Delta \text{Sales} - (PM \times \text{Projected Sales}) \times (1 - d)$
Accounting Ratios	Current Ratio = Current Assets / Current Liabilities Quick Ratio = (Current Assets - Inventory) / Current Liabilities Cash Ratio = Cash / Current Liabilities Total Debt Ratio = (Total Assets - Total Equity) / Total Assets Debt/Equity = Total Debt / Total Equities Equity Multiplier = Total Assets / Total Equity Times Interest Earned = (Earnings Before Interest And Taxes) / Interest Cash Coverage = (EBIT + Depreciation + Amortization) / Interest Inventory Turnover = Cost of Goods Sold / Inventory Days' Sales in Inventory = 365 / (Inventory Turnover) Receivables Turnover = Sales / Accounts Receivable Days' Sales in Receivables = 365 / Receivables Turnover Total Asset Turnover = Sales / Total Assets Profit Margin = Net Income / Sales Return on Assets = Net Income / Total Equity
Financial Cash Flow	C(A)=C(B)+C(S) C(A)=OCF- Change in NWC – Cash Flow to Fixed Assets, OCF=EBIT+Depreciation-Tax Change in NWC = Ending NWC – Beginning NWC Cash Flow to Fixed Assets = Ending NFA-Beginning NFA+Depreciation (if we use the gross fixed assets, then = Ending Gross Fixed Assets – Beginning Gross Fixed Assets) C(B) = Interest-(Ending Long Term Debt – Beginning Long Term Debt) C(S) = Dividends – (Stocks sold- Stocks purchased)