UCLA Spring 2019 ENG 111 Midterm Exam Mel Bulu Taciroglu

Name:	ID:	10	30
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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.

0/1

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%?

Rowan Company Comparative Balance Sheet (dollars in millions)	Ending Balance	Beginning Balance	C(A) =	7419-	15-
Assets	Balance	Dalance			
Current assets:					
Cash and cash equivalents	\$ 70	\$ 91			
Accounts receivable	536	572			
Inventory	620_	580			
Total current assets	1,226	1,243			
Property, plant, and equipment	1,719	1,656			
Less accumulated depreciation	640	480			
Net property, plant, and equipm	1,079	1,176			
Total assets	\$2,305	\$2,419		(10)	
Liabilities and Stockholders' E Current liabilities:			1		
Accounts payable	\$ 205	\$ 180			
Accrued liabilities	94	105			
Income taxes payable	72	88_			
Total current liabilities	371	373			
Bonds payable	180	310_			
Total liabilities	551	683			
Stockholders' equity:		-			
Common stock	800	800			
-Retained earnings	954	936			
Total stockholders' equity	1,754	1,736			
Total liabilities and stockholders' equity	\$2,305	\$2,419			

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.

Do you agree? Explain with one sentence.

Company A's equity does not have to go up shire A could have purchased B entirely using A's cash account in whiteh case cash would go down while goodwill and assets would mercuse to balance the change.

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

Do you agree? Explain with one sentence.

Three the agency problem highlights a discrepency between management and stockholders, takeour threat could be a mittgatty factor since it an outside fire management and improve the company and therefore management and 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 × 455
- b) selling new stock, x mer rone, through comm stock

can economy-wide slowdown

- d) increasing dividend payout ratio \ was to falled earning
- 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.

It would be a your candidate for a takeover since even though the firm has high earning after operational costs, a lot of it is lost to interst and taxes which highlights a froblem with management not property taking adventage of interest / tax reduction operfunities.

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.

Equity Does not have top go down shee it is a shedow account; even if money originally came from investors, it immediately went to cash accounts only the asset stde of the balance sheet changes with no

7. (5 points) The Stockholders Equity of a company is given below. How much did this company collect from the change 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
	201.000
Total Stockholder Equity	291,000

Common Stock > por value of stock x # of stocks capital surplus -> extra money collected for stock total collected = 26,000 + 196,000 \$222000

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 - probably not be a fixed short form the court 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? B. long term debt will rise - probably not be a fixed short or long term debt or both will rise onet working capital will fall E. equity will rise - probably not be a fixed short or long term debt or both will rise of the court of
A. interest is deducted from income and increases the total taxes incurred. I decrease terms B. the tax rate is applied to the earnings before interest and taxes when the firm has both depreciation and interest expenses. I applied to greetax head. C. depreciation is shown as an expense but does not affect the taxes payable. I reduces taxes payable 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 \ Structular
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. C. The owners of a sole proprietorship share profits as established by the partnership agreement. 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 image and future potential for the companies UBER acquired to date. Price that is paid to image and future potential for the companies UBER acquired to date. Price that is paid to image and future potential for the companies UBER acquired to date. In further operational cost on future potential 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.
(-5)

Income	Statement
Sales	\$1000
2000	\$ 600
Depreciation	\$ 100
EBIT	\$ 300
Interst	\$ 100
fre tax Income	\$ 200
Tax (50%)	\$100
Net Income	\$100

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, SGEA 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		12,000(1+4)	
Account Receivables	1,400		1400(1+x)	ell accepts go up 2 Same rate as Sales, 50 at 114
Inventory	3,600		3600(1+x)	J. 30 4
Total Current Assets	17,000		17000(1+X)	I some rate as
Long Term Investments	326,000		367,000(1+x)	Sales co
Net Property Plant and Equipment	278,000		278 000 (1+x)	220 at 114
Net Goodwill	151,000	2.0	(51000(1+x)	
Net Intangible Assets	57,000		57000(1+x)	
Total Fixed Assets	- 812,000		815000(1+x) NW	1=5000 12
Total Assets	829,000		829000(1+x)/	11 = 5000 (20
Current Liabilities			>0	,00 (1+x)
Accounts Payable	10,000		(1)	
Notes Payable	2,000		2000 (1+x)	
Total Current Liabilities	12,000		12000 (1+x)	
Long Term Debt	526,000		526,000	
Total Liabilities	538,000		576000+17000(1+x)	
Stockholders' Equity			51000	
Common Stock	26,000		76 000	
Capital Surplus	196,000		196 000	
Treasury Stock	-4,500		-4500	:1018.
Accumulated Retained Earnings	73,500		.5 (NC+ Income) + RI	
Total Stockholder Equity	291,000		743500 + 12000 (1+	n come)
Total Liabilites and Stockholders Equity	829,000		743500 + 12000 (1+	$(X) \leftarrow -(y)$

Income Statement All numbers in thousands				X=growth rate
Revenue	12/31/18	Scenario A	Scenario B	1
Total Revenue	200,000		700,000 (1+x)	7 00000 ()
COGS	80,000		80,000(1+x)	7 00000 (1 by) (x
Selling,Gen&Adm Costs	34,000		34,000(1+x)	
Depreciation	20,000		70,000	1
Earnings Before Interest and			86000 (1+x)-	= W/. XLTD .
Taxes	66,000		20000	
Interest Expense	26,300		y 26,3	
Income Before Tax	39,700		86000 (1+x)	20000]-7
Tax Expense(20%)	7,940	,	.2 (E 8600	20000]-y P(1+x)-20000]-y)
Net Income	31,760		-81L8600	P(1+x)-200-02

Total Asuts Total Habilities/Equ

(1) 829000 (1+x) = 743500 +12000(1+x) + .5(.8([86000(1+x)-20000]-y)

rket Value Measures	Market Capitalization = Price per share * # Shares Outstanding P/E Ratio = Price Per Share / Earnings Per Share Market to Book B. III
7	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)