## 國立東華大學管理學院 107第1學期 財務管理 期中考試

- 計算題務必寫出過程、使用千分位符號(,)以及小數點標示清楚。
- 滿分 120 分
- (30分) 代理問題與公司治理。
  - (1). (2分) 誰是公司的所有權人?
  - (2). (2分) What does the phrase *limited liability* mean in a corporate context?
  - (3). (2分) 為什麼公司(股份有限公司)會有代理問題?
  - (4). (9分)要如何利用公司治理機制的大股東以及專家的監督來解決股東和經理人之 間的代理問題?並請說明公司治理中 free rider 的現象。
  - (5). (5分) What does the phrase hostile takeover mean? Are hostile takeovers necessarily bad for firms or their investors? Explain.
  - (6). (5分) 當敵意接管發生後·目標公司的可能抵抗策略有哪些(至少寫出五個策略· 並簡述這些策略的意義)?
  - (7). (5分) 請說明控制股東質押股票所產生的問題。
- (10分) 財務槓桿
  - (1). (4分) 請問公司的財務槓桿 (leverage) 的意義為何?
  - (2). (6分) 一般會使用負債權益比率定義財務槓桿·為什麼負債權益比率的分子不應該 包括應付帳款卻包含一年內到期之長期負債和長期負債?請問向銀行短期借款這 個項目要不要納入負債權益比率的分子的計算?為什麼?
- (8分) In December 2011, high-end retailer Nordstrom had an operating margin of 11.5% over the past year; Wal-Mart Stores had an operating margin of only 5.9%.
  - (1). (2分) 請說明 operating margin 的定義。
  - (2). (4分)公司之間 operating margin 的差異主要因為哪兩個原因?
  - (3). (2分) 如果你是證券分析師·根據上述資訊·你認為 Wal-Mart Stores 的 operating margin 較其同業公司低的原因為何?
- (8分) You have just won a radio contest and are disappointed to find out that the prize is four tickets to the Def Leppard reunion tour (face value \$40 each). Not being a fan of 1980s power rock, you have no intention of going to the show. However, there is a second choice: two tickets to your favorite band's sold-out show (face value \$45 each). You notice that on eBay, tickets to the Def Leppard show are being bought and sold for \$30 apiece and tickets to your favorite band's show are being bought and sold at \$50 0 Ref Leppoird favorite \$40 x 4 \$45 x 2 on ebray \$30 \$50 \$120-\$50=\$10 @ \$50 each. Which prize should you choose? Why?

第1頁,共4頁

第2頁,共4頁

## 國立東華大學管理學院 107 第1 學期 財務管理 期中考試

(16分) Apple公司現在買轎車一部,總價\$2,500,000,除支付頭期款375,000,其餘 款項向銀行借入並分期付款攤還,第一筆錢於一年後開始支付,分5年本利平均 償還 (每年付款一次)·利率10%·每年須償還多少?並作分期付款攤銷表。(四捨 五入至整數位,表頭範例如下)

	1人人以及单门	IXH I.)			
期數	期初餘額	每期償還	利息部份	本金部份	期末餘額

(6分) You are saving for retirement. To live comfortably, you decide you will need to save \$1 million by the time you are 65. Today is your 23rd birthday, and you decide, starting today and continuing on every birthday up to and including your 65th birthday, that you will put the same amount into a savings account. If the interest rate is 5% how much must you set aside each year to make sure that you will have \$1 million in A. FVIFA = FV the account on your 65th birthday?

(6分) You realize that the plan in Problem 8 has a flaw. Because your income will increase over your lifetime, it would be more realistic to save less now and more later. Instead of putting the same amount aside each year, you decide to let the amount that you set aside grow by 3% per year. Under this plan, how much will you put into the account today? (Recall that you are planning to make the first contribution to the - C (1-(1-1)) + C (1-(0.95) +2) = 1 m => 1mx2% = 1.5921 account today.)

10. (15分) See Table 2.5 (See next page) showing financial statement data and stock price data for Mydeco Corp.

(3分) What is Mydeco's market capitalization at the end of each year? (1).

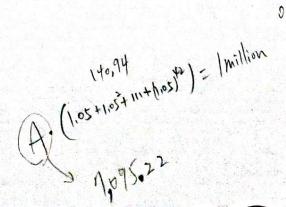
(3 分) What is Mydeco's market-to-book ratio at the end of each year?

(3 分) Using the data from 2012, what was Mydeco's total stockholders' equity in 2011? What were Mydeco's gross margins each year?

(3分) Compute Mydeco's PE ratio each year from 2012 to 2016. In which year was it the highest?

(3分) Compute Mydeco's ROE each year from 2012 to 2016. **(5)**.

0.428



2012–2016 Financial Statement Data and Stock Price Data for Mydeco Corp.

Mydeco Corp. 2012-2016	(All data as of fiscal year end; in \$ million)						
Income Statement	2012	2013	2014	2015	2016		
Revenue	401.9	361.6	429.6	513.6	602.6		
Cost of Goods Sold	(192.1)	(175.4)	(207.1)	(248.3)	(295.8)		
Gross Profit	209.8	186.2	222.5	265.3	306.8		
[1] [1] [1] [1] [2] [1] [2] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2	(65.0)	(64.4)	(84.3)	(104.9)	(121.1)		
Sales and Marketing Administration	(61.8)	(57.1)	(59.0)	(66.9)	(79.8)		
CONSTRUCTION OF THE PRODUCT OF A SECURITION OF A SECURITION OF THE PRODUCT OF THE SECURITION OF THE SE	(27.5)	(26.3)	(32.5)	(38.3)	(40.1)		
Depreciation & Amortization	55.5	38.4	46.7	55.2	65.8		
EBIT	(32.4)	(31.8)	(32.0)	(37.0)	(40.9)		
Interest Income (Expense)	23.1	6.6	14.7	18.2	24.9		
Pretax Income	(8.1)	(2.3)	(5.1)	(6.4)	(8.7)		
Income Tax	15.0	4.3	9.6	11.8	16.2		
Net Income		56.8	56.8	56.8	56.8		
Shares outstanding (millions)	56.8	\$0.08	\$0.17	\$0.21	\$0.29		
Earnings per share	\$0.26	\$0.00	The second second		2016		
Balance Sheet	2012	2013	2014	2015	2010		
Assets			91.7	80.4	83.6		
Cash	(49.4)	68.0	69.3	77.4	84.2		
Accounts Receivable	87.6	70.6	27.3	30.2	35.8		
Inventory	33.5	32.2	188.3	188.0	203.6		
Total Current Assets	170.5	170.8	306.1	349.6	347.9		
Net Property, Plant & Equip.	244.3	243.3	365.5	365.5	365.5		
Goodwill & Intangibles Total Assets	365.5 780.3	365.5 779.6	859.9	903.1	917.0		
Liabilities & Stockholders' Equity							
Accounts Payable	18.8	18.8	22.4	27.1	30.3		
Accrued Compensation	7.6	6.3	7.5	7.7	9.4		
Total Current Liabilities	26.4	25.1	29.9	34.8	39.7		
Long-term Debt	(498.9)	498.9	572.2	597.5	597.51		
Total Liabilities	525.3	1 524	602.1	632.3	637.2		
tockholders' Equity	255	255.6 2		7 270.8	279.8		
Total Liabilities & Stockholders' Equity	780.3	779.6	859.9	903.1	917.0		
Statement of Cash Flows	2012	2013	2014	2015	2016		
Net Income	15.0	4.3	9.6	11.8	16.2		
Depreciation & Amortization	27.5	26.3	32.5	38.3	40.1		
Chg. in Accounts Receivable	3.9	17.0	1.3	(8.1)	(6.8)		
Chg. in Inventory	(2.9)	1.3	4.9	(2.9)	(5.6)		
Chg. in Payables & Accrued Comp.	1.7	(1.3)	4.8	4.9	4.9		
Cash from Operations	45.2	47.6	53.1	44.0	48.8		
Capital Expenditures	(26.6)	(23.8)	(97.5)	(75.4)	(40.0)		
Cash from Investing Activities	(26.6)	(23.8)	(97.5)	(75.4)	(40.0)		
Dividends Paid	(5.2)	(5.2)	(5.2)	(5.2)	(5.6)		
그는 일이 이렇게 살아가는 모두가 있었다. 그 이번 그 그가 그렇게 되었다. 그 아이들이 아이를 보고 있다는 얼마나 되었다. 그리고 그리고 있다.		<u></u>		i. T	3		
Sale (or purchase) of stock	<u>-</u> -		73.3	25.3			
Debt Issuance (Pay Down)  Cash from Financing Activities	(5.2)	(5.2)	68.1	20.1	(5.6)		
As well a few manufactures of the second few to	13.4	18.6	23.7	(11.3)	3.2		
Change in Cash			ALC: NO STATE OF THE PARTY OF T				
Mydeco Stock Price	\$7.02	\$3.55	\$5.86	\$8.33	\$11.5		