

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
Online End Semester Examination, Dec 2020

Course: Corporate Valuation Sem: III Program: MBA(Core) Time 03 hrs. Course Code: FINC 8010P Max. Marks: 100

SECTION A

1. Each Question will carry 5 Marks

2. Instruction: Complete the statement / Select the correct answer(s)

S. No.	Question	
Q 1	Which of the following is not a method for estimation of growth rates of a firm (A) Arithmetic Average based (B) Geometric Average based (C) Regression Approach (D) All are known methods	CO3
Q2	State whether the following statements is true or false 1) To estimate the terminal value of a firm you may take a multiple of the firm's earnings or revenues in the current year. 2) Small changes in the stable growth rate might change the terminal value significantly	CO4
Q3	State whether the following statement is true or false All firms become stable growth firms	CO3
Q4	State whether the following statements is true or false Growth rate in stable phase growth cannot be negative	CO3

Q5	<p>Identify whether the statement is true or false</p> <p>Investing in developing or developed markets is equally risky and hence the equity risk premium is the same for both</p>	CO1																																			
Q6	<p>Identify whether the statement is true or false</p> <p>The risk free rate chosen in computing the equity risk premium has to be consistent with the risk free rate chosen to compute expected returns</p>	CO3																																			
<p>SECTION B</p> <p>1. Each question will carry 10 marks</p> <p>2. Instruction: Write short / brief notes</p>																																					
Q 7	<p>1) (i) Assume that the average beta for a set of shipping companies is 0.79 and the average debt to equity ratio is 0.7504 and the average tax rate is 27 % estimate the unlevered beta..</p> <p>(ii) Comment on averaging the beta across industries .</p>	CO1																																			
Q8)	<p>For the following years kindly calculate the average growth in EBITDA and EBIT income for a Motorola employing arithmetic and geometric average of the growth rates</p> <table border="1" data-bbox="386 1255 1409 1539"> <thead> <tr> <th>Year</th> <th>EBITDA</th> <th>%change</th> <th>EBIT</th> <th>% change</th> </tr> </thead> <tbody> <tr> <td>2004</td> <td>4151</td> <td></td> <td>2604</td> <td></td> </tr> <tr> <td>2005</td> <td>4850</td> <td></td> <td>2931</td> <td></td> </tr> <tr> <td>2006</td> <td>4268</td> <td></td> <td>1960</td> <td></td> </tr> <tr> <td>2007</td> <td>4276</td> <td></td> <td>1947</td> <td></td> </tr> <tr> <td>2008</td> <td>3019</td> <td></td> <td>822</td> <td></td> </tr> <tr> <td>2009</td> <td>5398</td> <td></td> <td>3216</td> <td></td> </tr> </tbody> </table> <p>Comment on why the arithmetic average growth rate might not be appropriate for this context</p>	Year	EBITDA	%change	EBIT	% change	2004	4151		2604		2005	4850		2931		2006	4268		1960		2007	4276		1947		2008	3019		822		2009	5398		3216		CO3
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	AB breweries	24.31	11.00	56.51%
	Corby Distilleries	16.24	7.5%	58.34%
	Chalone Wine group	21.76	14.00%	51.06%
	Andres Wines	8.96	3.5%	21.77%
	Todhunter Intl	8.94	3%	31.61%
	Brown Foreman	10.07	11.5%	45.31%
	Coors	23.02	10%	19.56%
	PepsiCo	33	10.5%	31.35%
	Coca Cola	44.33	19.00%	35.51%
	Boston	10.59	17.13%	39.58%
	Whitman	25.19	11.50%	44.26%
	Hansen Natural	9.7	17%	62.45%
	Mondavi	16.47	14.00%	45.84%
	Coca Cola	37.14	27.00%	51.34%
9 cont d	<p>Regressing the price-to-equity ratio against the expected growth and standard deviation in stock prices, we get</p> $PE = 20.87 + 183.24 \text{Expected Growth} - 63.98 \text{Standard Deviation} \quad R^2 = 51\%$ <p>Kindly calculate projected PE ratio for Pepsi Co, Coca cola, Boston, Whitman and Hansen Natural. Comment on whether they are underpriced or overpriced.</p>			

Q 10	<p>Assume that the P/E ratio for the firm is given by $\text{Payout ratio} * (1 + gn) / (k_e - gn)$ where k_e refers to the cost of capital and gn the growth rate</p> <p>Calculate the P/E ratio for a stock with a payout ratio 2, cost of capital to be 11.5% and growth rate 25%</p>	CO1
Q11	<p>Given the following information for years 2014 project the cash flows in the years 2015, 2016 and 2017.</p> <p>Assume sales in successive year to be 120% of the previous year figure</p> <p>COGS, SG & A expenses have the same ratio to Sales Revenue as they have in the year 2014.</p> <p>R& D expenses are to be assumed as 0</p> <p>Depreciation should be taken as 3% of (75% of the value of Sales Revenues of 2014)</p> <p>Delta Capex values need to be projected as 0.3 % of Sales Revenue of the year</p> <p>Delta NWC values for the three years are Rs 42635, 102325 and 89534</p> <p>Tax Rates are to be taken as 35%</p>	CO2

Sales	4132517	7491187	11000000
CGS	1303416	1632722	2397476
Gross Margin	2829101	5858465	8602524
(-)SGA	2449200	4342500	6376493
(-)R & D	0	0	0
EBITDA	379901	1515965	2226031
(-)D &A	41800	149007	24750
EBIT	338101	1366958	2201281
(-) Corporate Tax	4421	74191	770448.4
After Tax EBIT	333680	1292767	1430833
(+)D & A	41800	149007	24750
(-) Delta Capex	142212	1194393	33000
(-)Delta NWC	10800	271200	68000

Section C

- 1. Each Question carries 20 Marks.**
- 2. Instruction: Write long answer.**

Q12	Explain the advantages and pitfalls of using relative valuation (both enterprise and price based multiples).	CO2
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