Introduction to Finance - II Quiz 3 February 5, 2019

Read the questions carefully. Don't make them harder than they are! Answer succinctly and precisely. Show all of your work.

1.	Suppose that the variance of monthly returns on the market portfolio is 0.001875, and the monthly expected return on the market is 0.0075. Also the yield to maturity on the 30-year US Treasury bond is 4.5%. Maxim Integrated Products (MXIM) has a monthly return variance of 0.0252, and its correlation with the market portfolio is 0.44. Suppose the market capitalization of MXIM's stock is \$15 billion, and MXIM has \$3 billion in long-term debt. MXIM has a marginal income tax rate of 23%. The yield to maturity on MXIM's 30-year bonds is 7.5%.							
	(a) (10 points) What is MXIM's β ?							
	(b) (10 points) Of MXIM's total return variance, what percentage is systematic?							

(c) (10 points) Of MXIM's total return variance, what percentage is diversifiable?

(d)	(10	points)	What is MX	IM's annualized	l cost of equit	y capital accor	ding to the CA	PM?
(e)	(20	points)	What is MX	IM's annualized	d weighted ave	erage cost of ca	pital?	

