## Quiz B for 2:30 Class: 11/19/12

Name Key

Use the following information to set up the calculations needed to determine the beta of Netflix's assets and Netflix's bonds.

Information on Netflix's assets: market value = \$6 billion, book value = \$1.9 billion, standard deviation of returns = 40%, average life = 20 years

Information on Netflix's bonds: market value = \$1 billion, book value = \$0.9 billion, standard deviation of returns = 10%, maturity = 5 years, maturity value of debt = \$1.2 billion

Information on Netflix's stock: market value = \$5 billion, book value = \$1 billion, standard deviation of returns = 45%, beta = 0.7

Returns on Treasuries by maturity: 1 - year = 0.2%; 5 - year = 0.7%; 10 - year = 1.6%; 12 - year = 1.7%; 20 - year = 2.2%; 30 - year = 2.7%

+6 ( $\beta_0 = \frac{0.7}{D(1+\frac{31}{15})}$  ( $\beta_0$ )

+4 ( $\Delta = \lambda | d_1) \Rightarrow look up on tables or in Excel (<math>\delta_0$ )

+6 ( $d_1 = \frac{ln(\frac{1}{N}uc)}{4z.4\sqrt{5}z} + \frac{14}{z}$  ( $\beta_0$ )

+6 ( $\beta_0 = \frac{1.2}{1.007}$ )

+7 ( $\beta_0 = \frac{1.2}{1.007}$ )

+8 ( $\beta_0 = \frac{1.2}{1.007}$ )