

FNB 100 Quiz 2

Name Last _____ First _____

Given, $FV_n = \frac{PMT[(1+r)^n - 1]}{r}$, $PV_0 = -\frac{PMT}{r} \left[\frac{1}{(1+r)^n} - 1 \right] = \frac{PMT}{r} - \frac{PMT}{r(1+r)^n}$ &

$$P_0 = \sum_{t=1}^T \frac{Coupon_t}{(1+R_T)^t} + \frac{Face\ Value}{(1+R_T)^T}$$

Show all your works to answer the following questions.

1. If you set up an annual sinking fund account to retire \$1,000,000 debt in 10 years @10% interest, how much will you have to pay into account annually?
2. The prevailing (bank) interest rate is currently 10% per year. If an annuity pays \$1,000 annually for the next 10 years, what is such an annuity worth today?
3. If the bond that matures in 10 years with the face (redemption) value of \$1,000 pays coupon interest of \$100 per year while the prevailing interest rate is 15%, how much should the bond sell for?

Given Required ROR (k) = $R_f + \text{Risk Premium} \times \beta_i$ or $E[\tilde{R}_i] = R_f + [E[R_m] - R_f] \frac{\sigma_{im}}{\sigma_m^2}$

4. If a firm's β is 3, and the market return is 10%, what is the required return on the firm's stock if the risk-free rate is 5%?
5. If this company pays \$8 dividend /share, what is the rational price of this firm's stock? If the stock currently trades at \$80, is this a "must-buy" or "must sell"? Why?

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