1. The graph of the relationship between expected return and beta in the CAPM context is called the $\qquad$ _.
A. CML
B. CAL
C. SML
D. SCL
2. According to the capital asset pricing model, a security with a $\qquad$ .
A. negative alpha is considered a good buy
B. positive alpha is considered overpriced
C. positive alpha is considered underpriced
D. zero alpha is considered a good buy
3. You have a $\$ 50,000$ portfolio consisting of Intel, GE and Con Edison. You put $\$ 20,000$ in Intel, $\$ 12,000$ in GE and the rest in Con Edison. Intel, GE and Con Edison have betas of 1.3, 1.0 and 0.8 respectively. What is your portfolio beta?
A. 1.048
B. 1.033
C. 1.000
D. 1.037
4. Consider the CAPM. The expected return on the market is $18 \%$. The expected return on a stock with a beta of 1.2 is $20 \%$. What is the risk-free rate?
A. $2 \%$
B. $6 \%$
C. $8 \%$
D. $12 \%$
5. When all investors analyze securities in the same way and share the same economic view of the world we say they have $\qquad$ _.
A. heterogeneous expectations
B. equal risk aversion
C. asymmetric information
D. homogeneous expectations
6. Consider the following two stocks, A and B. Stock A has an expected return of $10 \%$ and a beta of 1.20 . Stock B has an expected return of $14 \%$ and a beta of 1.80 . The expected market rate of return is $9 \%$ and the risk-free rate is $5 \%$. Security $\qquad$ would be considered a good buy because $\qquad$ —.
A. A, it offers an expected excess return of $0.2 \%$
B. A, it offers an expected excess return of $2.2 \%$
C. B, it offers an expected excess return of $1.8 \%$
D. B, it offers an expected return of $2.4 \%$
7. Consider the multi-factor APT with two factors. Portfolio A has a beta of 0.5 on factor 1 and a beta of 1.25 on factor 2 . The risk premiums on the factors 1 and 2 portfolios are $1 \%$ and $7 \%$ respectively. The risk-free rate of return is $7 \%$. The expected return on portfolio A is $\qquad$ if no arbitrage opportunities exist.
A. $13.5 \%$
B. $15.0 \%$
C. $16.25 \%$
D. $23.0 \%$
8. The expected return on the market portfolio is $15 \%$. The risk-free rate is $8 \%$. The expected return on SDA Corp. common stock is $16 \%$. The beta of SDA Corp. common stock is 1.25 . Within the context of the capital asset pricing model, $\qquad$ .
A. SDA Corp. stock is underpriced
B. SDA Corp. stock is fairly priced
C. SDA Corp. stock's alpha is $-0.75 \%$
D. SDA Corp. stock alpha is $0.75 \%$
9. Research has identified two systematic factors that affect U.S. stock returns. The factors are growth in industrial production and changes in long term interest rates. Industrial production growth is expected to be $3 \%$ and long term interest rates are expected to increase by $1 \%$. You are analyzing a stock is that has a beta of 1.2 on the industrial production factor and 0.5 on the interest rate factor. It currently has an expected return of $12 \%$. However, if industrial production actually grows $5 \%$ and interest rates drop $2 \%$ what is your best guess of the stock's return?
A. $15.9 \%$
B. $12.9 \%$
C. $13.2 \%$
D. $12.0 \%$
