https://selldocx.com/products

/test-bank-mirror-for-humanity-a-concise-introduction-to-cultural-anthropology-9e-kottak CHAPTER 1—THE INVESTMENT SETTING

TRUE/FALSE

1.	The rate of exchange between certain future dollars and certain current dollars is known as the pur rate of interest.	e
	ANS: T PTS: 1	
2.	An investment is the current commitment of dollars over time to derive future payments to compete the investor for the time funds are committed, the expected rate of inflation and the uncertainty of future payments.	nsate
	ANS: T PTS: 1	
3.	The holding period return (HPR) is equal to the holding period yield (HPY) stated as a percentage	•
	ANS: F PTS: 1	
4.	The geometric mean of a series of returns is always larger than the arithmetic mean and the difference increases with the volatility of the series.	nce
	ANS: F PTS: 1	
5.	The expected return is the average of all possible returns.	
	ANS: F PTS: 1	
6.	Two measures of the risk premium are the standard deviation and the variance.	
	ANS: F PTS: 1	
7.	The variance of expected returns is equal to the square root of the expected returns.	
	ANS: F PTS: 1	
8.	The coefficient of variation is the expected return divided by the standard deviation of the expecter return.	d
	ANS: F PTS: 1	
9.	Nominal rates are averages of all possible real rates.	
	ANS: F PTS: 1	
10.	The risk premium is a function of the volatility of operating earnings, sales volatility and inflation.	•
	ANS: F PTS: 1	
11.	An individual who selects the investment that offers greater certainty when everything else is the sis known as a risk averse investor.	ame

12.	Investors are willing to forgo current consumption in order to increase future consumption for a nominal rate of interest.							
	ANS: F	PTS:	1					
13.	The two most cor and geometric me		llations investo	ors use t	o measure return performance are arithmetic means			
	ANS: T	PTS:	1					
14.					ong-term performance because it indicates the g value of the investment versus its beginning			
	ANS: F	PTS:	1					
MUL	FIPLE CHOICE							
2.	 The basic trade-off in the investment process is a. between the anticipated rate of return for a given investment instrument and its degree of risk. b. between understanding the nature of a particular investment and having the opportunity to purchase it. c. between high returns available on single instruments and the diversification of instruments into a portfolio. d. between the desired level of investment and possessing the resources necessary to carry it out. e. None of the above. ANS: A PTS: 1 OBJ: Multiple Choice 							
	d. The consumpe. The expected		ment paradigm ırn.	1.				
	ANS: C	PTS:	1	OBJ:	Multiple Choice			
3.	The the variexpectations and a. Larger, greate b. Larger, small c. Larger, greated. Smaller, greated. Smaller, greated. Smaller, greated.	the ther, lower er, higher er, higher ter, lower		ig else r	emaining constant, the the dispersion of			
	ANS: C	PTS:	1	OBJ:	Multiple Choice			
1	The coefficient of	Experiation i	s a mansura of					

- 4. The coefficient of variation is a measure of
 - a. Central tendency.

ANS: T

PTS: 1

b. Absolute variability. c. Absolute dispersion. d. Relative variability. e. Relative return. ANS: D PTS: 1 OBJ: Multiple Choice 5. The nominal risk free rate of interest is a function of The real risk free rate and the investment's variance. b. The prime rate and the rate of inflation. c. The T-bill rate plus the inflation rate. d. The tax free rate plus the rate of inflation. e. The real risk free rate and the rate of inflation. ANS: E PTS: 1 OBJ: Multiple Choice 6. In the phrase "nominal risk free rate," nominal means a. Computed. b. Historical. c. Market. d. Average. e. Risk adverse. ANS: C PTS: 1 OBJ: Multiple Choice 7. If a significant change is noted in the yield of a T-bill, the change is most likely attributable to a. A downturn in the economy. b. A static economy. c. A change in the expected rate of inflation. d. A change in the real rate of interest. e. A change in risk aversion. ANS: C PTS: 1 OBJ: Multiple Choice 8. The real risk-free rate is affected by a two factors; The relative ease or tightness in capital markets and the expected rate of inflation. b. The expected rate of inflation and the set of investment opportunities available in the economy. c. The relative ease or tightness in capital markets and the set of investment opportunities available in the economy. d. Time preference for income consumption and the relative ease or tightness in capital e. Time preference for income consumption and the set of investment opportunities available in the economy. ANS: E PTS: 1 OBJ: Multiple Choice 9. Which of the following is **not** a component of the risk premium? a. Business risk b. Financial risk c. Liquidity risk d. Exchange rate risk e. Unsystematic market risk ANS: E PTS: 1 OBJ: Multiple Choice

10.	The ability to sell an a. Business risk. b. Liquidity risk. c. Exchange rate rid. Financial risk. e. Market risk.	·	uickly at a fair	price is	associated with
	ANS: B	PTS:	1	OBJ:	Multiple Choice
11.	The variability of op a. Business risk. b. Liquidity risk. c. Exchange rate ri d. Financial risk. e. Market risk.		earnings is asso	ociated	with
	ANS: A	PTS:	1	OBJ:	Multiple Choice
12.	The uncertainty of in a. Business risk. b. Liquidity risk. c. Exchange rate rid. Financial risk. e. Market risk.		nt returns asso	ciated w	with how a firm finances its investments is known as
	ANS: D	PTS:	1	OBJ:	Multiple Choice
13.		on expect op the same of less slame of a steep keep the	tations increase me slope ope per slope same slope		2) if the following events occur, other things 2) investors become more risk averse?
	ANS: C	PTS:	1	OBJ:	Multiple Choice
14.	A decrease in the ma a. Shift up b. Shift down c. Have a steeper s d. Have a flatter sle e. Remain unchang	lope ope	k premium, all	other th	nings constant, will cause the security market line to
	ANS: D	PTS:	1	OBJ:	Multiple Choice
15.	A decrease in the exsecurity market line a. Shift up b. Shift down c. Have a steeper s d. Have a flatter sle e. Remain unchang	to lope ope	eal growth in the	ne econ	omy, all other things constant, will cause the
	ANS: B	PTS:	1	OBJ:	Multiple Choice

16.	Unsystematic risk rea. Undiversifiable b. Diversifiable c. Due to fundame d. Due to market rie. None of the about	ntal risk factors		
	ANS: B	PTS: 1	OBJ:	Multiple Choice
17.	The security market a. Business risk an b. Systematic risk c. Risk and return d. Systematic risk e. None of the abo	d financial risk and unsystematic ris	sk	d relationship between
	ANS: C	PTS: 1	OBJ:	Multiple Choice
18.	b. The expected rate economy.c. The relative ease available in the d.d. Time preference markets.	e or tightness in capite of inflation and the or tightness in capite conomy.	ital market e set of inv ital market ption and t	e are; s and the expected rate of inflation. Vestment opportunities available in the s and the set of investment opportunities the relative ease or tightness in capital the set of investment opportunities available
	ANS: A	PTS: 1	OBJ:	Multiple Choice
19.	Measures of risk for a. Variance of returns to the Coefficient of variance of returns. Business risk and d. Variance of returns. All of the above	rns and business risk ariation of returns and d financial risk rns and coefficient o	d financia	of returns
	ANS: D	PTS: 1	OBJ:	Multiple Choice
20.		rns and business risk ariation of returns ar	ζ.	l risk

- d. Variance of returns and coefficient of variation of returns
- e. All of the above

ANS: C PTS: 1 OBJ: Multiple Choice

- 21. Modern portfolio theory assumes that most investors are
 - a. Risk averse
 - b. Risk neutral
 - c. Risk seekers
 - d. Risk tolerant
 - e. None of the above

	ANS: A	PTS:	1	OBJ:	Multiple Choice	
22.	Which of the follow a. Expected rate of b. Time value of m c. Risk d. Holding period a e. All of the above	inflatior ioney return	1		required rate of return?	
	ANS: D	PTS:	1	OBJ:	Multiple Choice	
23.	All of the following a. Business risk b. Financial risk c. Default risk d. Country risk e. Liquidity risk	are majo	or sources of ur	ncertain	ty EXCEPT	
	ANS: C	PTS:	1	OBJ:	Multiple Choice	
24.	The total risk for a sa. Beta with the man beta beta beta beta beta beta beta beta	arket por on of ret	tfolio urns	d by its		
	ANS: C	PTS:	1	OBJ:	Multiple Choice	
25.	The increase in yield a. Credit risk prem b. Market risk prem c. Investors are mod d. Non-investment e. Government boo	niums deconiums in ore confiderate books	creased creased dent of the futu onds are less ri	ıre cash sky		
	ANS: B	PTS:	1	OBJ:	Multiple Choice	
26.	 6. Which of the following is <i>least likely</i> to move a firm's position to the right on the Security Market Line (SML)? a. An increase in the firm's beta b. Adding more financial debt to the firm's balance sheet relative to equity c. Changing the business strategy to include new product lines with more volatile expected cash flows d. Investors perceive the stock as being more risky e. An increase in the risk-free required rate of return. 					
	ANS: E	PTS:	1	OBJ:	Multiple Choice	
	Exhibit 1.1					

USE THE INFORMATION BELOW FOR THE FOLLOWING PROBLEM(S)

Assume you bought 100 shares of NewTech common stock on January 15, 2003 at \$50.00 per share and sold it on January 15, 2004 for \$40.00 per share.

- 27. Refer to Exhibit 1.1. What was your holding period return?
 - a. -10%
 - b. -0.8
 - c. 25%
 - d. 0.8
 - e. -20%

ANS: D

HPR = Ending Value/Beginning Value = 40/50 = 0.8

PTS: 1 OBJ: Multiple Choice Problem

- 28. Refer to Exhibit 1.1. What was your holding period yield?
 - a. -10%
 - b. -0.8
 - c. 25%
 - d. 0.8
 - e. -20%

ANS: E

HPY = HPR - 1 = (40/50) - 1 = 0.8 - 1 = -0.2 = -20%

PTS: 1 OBJ: Multiple Choice Problem

Exhibit 1.2

USE THE INFORMATION BELOW FOR THE FOLLOWING PROBLEM(S)

Suppose you bought a GM corporate bond on January 25, 2001 for \$750, on January 25, 2004 sold it for \$650.00.

- 29. Refer to Exhibit 1.2. What was your annual holding period return?
 - a. 0.8667
 - b. -0.1333
 - c. 0.0333
 - d. 0.9534
 - e. -0.0466

ANS: D

HPR = Ending Value/Beginning Value = \$650.00/\$750 = 0.8667

Annual HPR = $(HPR)^{1/n}$ = $(0.8667)^{1/3}$ = 0.9534

PTS: 1 OBJ: Multiple Choice Problem

- 30. Refer to Exhibit 1.2. What was your annual holding period yield?
 - a. -0.0466
 - b. -0.1333
 - c. 0.0333
 - d. 0.3534
 - e. 0.8667

ANS: A

HPR = Ending Value/Beginning Value = \$650.00/\$750 = 0.8667

Annual HPR = $(HPR)^{1/n}$ = $(0.8667)^{1/3}$ = 0.9534

Annual HPY = Annual HPR -1 = 0.9534 - 1 = -0.0466 = -4.66%

PTS: 1 OBJ: Multiple Choice Problem

Exhibit 1.3

USE THE INFORMATION BELOW FOR THE FOLLOWING PROBLEM(S)

The common stock of XMen Inc. had the following historic prices.

Time	Price of X-Tech
3/01/1999	50.00
3/01/2000	47.00
3/01/2001	76.00
3/01/2002	80.00
3/01/2003	85.00
3/01/2004	90.00

- 31. Refer to Exhibit 1.3. What was your holding period return for the time period 3/1/1999 to 3/1/2004?
 - a. 0.1247
 - b. 1.8
 - c. 0.1462
 - d. 0.40
 - e. 0.25

ANS: B

HPR = Ending Value/Beginning Value = 90/50 = 1.8

PTS: 1 OBJ: Multiple Choice Problem

- 32. Refer to Exhibit 1.3. What was your annual holding period yield (Annual HPY)?
 - a. 0.1462
 - b. 0.1247
 - c. 1.8
 - d. 0.40
 - e. 0.25

ANS: B

Annual HPR = $(HPR)^{1/n} = (1.8)^{1/5} = 1.1247$

Annual HPY = Annual HPR -1 = 1.1247 - 1 = 0.1247 = 12.47%

Time	Price of X-Tech	Return	HPR
3/01/1999	50		
3/01/2000	47	-0.0600	0.9400
3/01/2001	76	0.6170	1.6170
3/01/2002	80	0.0526	1.0526
3/01/2003	85	0.0625	1.0625
3/01/2004	90	0.0588	1.0588

- 33. Refer to Exhibit 1.3. What was your arithmetic mean annual yield for the investment in XMen Industries.
 - a. 0.1462
 - b. 0.1247
 - c. 1.8
 - d. 0.40
 - e. 0.25

ANS: A

Arithmetic Mean =

$$\frac{1}{N} \sum_{t=1}^{N} HPY_{t} = \frac{-0.06 + 0.617 + 0.0526 + 0.0625 + 0.588}{5} = 0.1462$$

PTS: 1 OBJ: Multiple Choice Problem

- 34. Refer to Exhibit 1.3. What was your geometric mean annual yield for the investment in XMen?
 - a. 0.25
 - b. 0.40
 - c. 1.8
 - d. 0.1247
 - e. 0.1462

ANS: D

Geometric Mean =
$$\prod_{t=1}^{N} (HPR_t)^{1/N} - 1$$
=
$$\left[(0.94)(1.617)(1.0526)(1.0588) \right]^{1/5} - 1$$
=
$$1.1247 - 1 = 0.1247 = 12.47\%$$

PTS: 1 OBJ: Multiple Choice Problem

Exhibit 1.4

USE THE INFORMATION BELOW FOR THE FOLLOWING PROBLEM(S)

You have concluded that next year the following relationships are possible:

Economic Status	Probability	Rate of Return
Weak Economy	.15	-5%
Static Economy	.60	5%
Strong Economy	.25	15%

- 35. Refer to Exhibit 1.4. What is your expected rate of return $[E(R_i)]$ for next year?
 - a. 4.25%
 - b. 6.00%
 - c. 6.25%
 - d. 7.75%
 - e. 8.00%

ANS: B

$$E(R_i) = (0.15)(-5) + (0.60)(5) + (0.25)(15) = 6\%$$

PTS: 1

OBJ: Multiple Choice Problem

36. Refer to Exhibit 1.4. Compute the standard deviation of the rate of return for the one year period.

- a. 0.65%
- b. 1.45%
- c. 4.0%
- d. 6.25%
- e. 6.4%

ANS: D

$$\sigma = [(0.15)(-5-6)^2 + (0.60)(5-6)^2 + (0.25)(15-6)^2]^{1/2} = 6.25\%$$

PTS: 1 OBJ: Multiple Choice Problem

37. Refer to Exhibit 1.4. Compute the coefficient of variation for your portfolio.

- a. 0.043
- b. 0.12
- c. 1.40
- d. 0.69
- e. 1.04

ANS: E

CV = Standard Deviation of Returns/Expected Rate of Return = 6.25/6 = 1.04

PTS: 1 OBJ: Multiple Choice Problem

Exhibit 1.5

USE THE INFORMATION BELOW FOR THE FOLLOWING PROBLEM(S)

Assume that during the past year the consumer price index increased by 1.5 percent and the securities listed below returned the following nominal rates of return.

U.S. Government T-bills 2.75% U.S. Long-term bonds 4.75%

38. Refer to Exhibit 1.5. What are the real rates of return for each of these securities?

- a. 4.29% and 6.32%
- b. 1.23% and 4.29%
- c. 3.20% and 6.32%
- d. 1.23% and 3.20%
- e. 3.75% and 5.75%

ANS: D

Real rate on T-bills = (1.0275/1.015) - 1 = 0.0123 = 1.23%

Real rate on bonds = (1.0475/1.015) - 1 = 0.032 = 3.2%

PTS: 1 OBJ: Multiple Choice Problem

39. Refer to Exhibit 1.5. If next year the real rates all rise by 10 percent while inflation climbs from 1.5 percent to 2.5 percent, what will be the nominal rate of return on each security?

- a. 1.24% and 1.52%
- b. 1.35% and 3.52%

- c. 3.89% and 6.11%
- d. 3.52% and 3.89%
- e. 1.17% and 6.11%

ANS: C

The computations for the new real rates are:

Real rate on T-bills = $1.23 \times 1.10 = 1.353\%$

Real rate on bonds = $3.2 \times 1.10 = 3.52\%$

Nominal rate on T-bills = (1.01353)(1.025) - 1 = .03886 = 3.89%

Nominal rate on corporate bonds = (1.0352)(1.025) - 1 = .06108 = 6.11%

PTS: 1 OBJ: Multiple Choice Problem

- 40. If over the past 20 years the annual returns on the S&P 500 market index averaged 12% with a standard deviation of 18%, what was the coefficient of variation?
 - a. 0.6
 - b. 0.6%
 - c. 1.5
 - d. 1.5%
 - e. 0.66%

ANS: C

Coefficient of Variation = Standard Deviation of Returns/Expected Rate of Return

= 18%/12% = 1.5

PTS: 1 OBJ: Multiple Choice Problem

41. Given investments A and B with the following risk return characteristics, which one would you prefer and why?

		Standard Deviation
Investment	Expected Return	of Expected Returns
A	12.2%	7%
В	8.8%	5%

- a. Investment A because it has the highest expected return.
- b. Investment A because it has the lowest relative risk.
- c. Investment B because it has the lowest absolute risk.
- d. Investment B because it has the lowest coefficient of variation.
- e. Investment A because it has the highest coefficient of variation.

ANS: D

Coefficient of Variation = Standard Deviation of Returns/Expected Rate of Return

$$CV_A = 7\%/12.2\% = 0.573$$

$$CV_B = 5\%/8.8\% = 0.568$$

Investment B has the lowest coefficient of variation and would be preferred.

PTS: 1 OBJ: Multiple Choice Problem

Exhibit 1.6

USE THE INFORMATION BELOW FOR THE FOLLOWING PROBLEM(S)

You are provided with the following information:

Nominal return on risk-free asset = 4.5%

Expected return for asset i = 12.75%

Expected return on the market portfolio = 9.25%

- 42. Refer to Exhibit 1.6. Calculate the risk premium for asset i.
 - a. 4.5%
 - b. 8.25%
 - c. 4.75%
 - d. 3.5%
 - e. None of the above

ANS: B

Risk premium for asset i = 12.75 - 4.5 = 8.25%

PTS: 1 OBJ: Multiple Choice Problem

- 43. Refer to Exhibit 1.6. Calculate the risk premium for the market portfolio.
 - a. 4.5%
 - b. 8.25%
 - c. 4.75%
 - d. 3.5%
 - e. None of the above

ANS: C

Risk premium market portfolio = 9.25 - 4.5 = 4.75%

PTS: 1 OBJ: Multiple Choice Problem

Exhibit 1.7

USE THE INFORMATION BELOW FOR THE FOLLOWING PROBLEM(S)

Consider the following information

Nominal annual return on U.S. government T-bills for year 2009 = 3.5%

Nominal annual return on U.S. government long-term bonds for year 2009 = 4.75%

Nominal annual return on U.S. large-cap stocks for year 2009= 8.75%

Consumer price index January 1, 2009 = 165

Consumer price index December 31, 2009 = 169

- 44. Refer to Exhibit 1.7. Compute the rate of inflation for the year 2009.
 - a. 2.42%
 - b. 4.0%
 - c. 1.69%
 - d. 1.24%
 - e. None of the above

ANS: A

Rate of inflation = (169/165) - 1 = .0242 = 2.42%

45. Refer to Exhibit 1.7. Calculate the annual real rate of return for U.S. T-bills.

- a. 2.26%
- b. 1.81%
- c. -0.5%
- d. 1.05%
- e. None of the above

ANS: D

Real return on U.S. T-bills = (1.035/1.0242) - 1 = .0105 = 1.05%

PTS: 1 OBJ: Multiple Choice Problem

46. Refer to Exhibit 1.7. Calculate the annual real rate of return for U.S. long-term bonds.

- a. 3.06%
- b. 2.27%
- c. 2.51%
- d. 3.5%
- e. None of the above

ANS: B

Real return on U.S. bonds = (1.0475/1.0242) - 1 = .0227 = 2.27%

PTS: 1 OBJ: Multiple Choice Problem

47. Refer to Exhibit 1.7. Calculate the annual real rate of return for U.S. large-cap stocks.

- a. 7.06%
- b. 6.18%
- c. 4.75%
- d. 3.75%
- e. None of the above

ANS: B

Real return on U.S. stocks = (1.0875/1.0242) - 1 = .0618 = 6.18%

PTS: 1 OBJ: Multiple Choice Problem

Exhibit 1.8

USE THE INFORMATION BELOW FOR THE FOLLOWING PROBLEM(S)

Assume that you hold a two stock portfolio. You are provided with the following information on your holdings:

Stock	Shares	Price(t)	Price(t + 1)
1	15	10	12
2	25	15	16

48. Refer to Exhibit 1.8. Calculate the HPY for stock 1.

- a. 10%
- b. 20%
- c. 15%
- d. 12%
- e. 7%

ANS: B

Stock	Shares	Price(t)	MV (t)	Price (t+1)	MV (t+1)	HPR	HPY	Weight	Weighted HPY
1	15	10	150	12	180	1.2	0.2	0.29	0.058
2	25	15	375	16	400	1.07	0.07	0.71	0.048
			525		580				0.106

HPY for stock 1 = (180/150) - 1 = .2 = 20%

PTS: 1 OBJ: Multiple Choice Problem

- 49. Refer to Exhibit 1.8. Calculate the HPY for stock 2.
 - a. 5%
 - b. 6%
 - c. 7%
 - d. 8%
 - e. 10%

ANS: C

			MV	Price	MV				Weighted
Stock	Shares	Price(t)	(t)	(t+1)	(t+1)	HPR	HPY	Weight	HPY
1	15	10	150	12	180	1.2	0.2	0.29	0.058
2	25	15	375	16	400	1.07	0.07	0.71	0.048
			525		580				0.106

HPY for stock 2 = (400/375) - 1 = .07 = 7%

PTS: 1 OBJ: Multiple Choice Problem

- 50. Refer to Exhibit 1.8. Calculate the market weights for stock 1 and 2 based on period t values.
 - a. 39% for stock 1 and 61% for stock 2
 - b. 50% for stock 1 and 50% for stock 2
 - c. 71% for stock 1 and 29% for stock 2
 - d. 29% for stock 1 and 71% for stock 2
 - e. None of the above

ANS: D

			MV	Price	MV				Weighted
Stock	Shares	Price(t)	(t)	(t+1)	(t+1)	HPR	HPY	Weight	HPY
1	15	10	150	12	180	1.2	0.2	0.29	0.058
2	25	15	375	16	400	1.07	0.07	0.71	0.048
			525		580				0.106

Market weight for stock 1 = 150/525 = .29 = 29%

Market weight for stock 2 = 375/525 = .71 = 71%

- 51. Refer to Exhibit 1.8. Calculate the HPY for the portfolio.
 - a. 10.6%
 - b. 6.95%
 - c. 13.5%
 - d. 10%
 - e. 15.7%

Stock	Shares	Price(t)	MV (t)	Price (t+1)	MV (t+1)	HPR	HPY	Weight	Weighted HPY
1	15	10	150	12	180	1.2	0.2	0.29	0.058
2	25	15	375	16	400	1.07	0.07	0.71	0.048
			525		580				0.106

Portfolio HPY = .29(.20) + .71(.07) = .106 = 10.6%

PTS: 1 OBJ: Multiple Choice Problem

Exhibit 1.9

USE THE INFORMATION BELOW FOR THE FOLLOWING PROBLEM(S)

You purchased 100 shares of GE common stock on January 1, for \$29 a share. A year later you received \$1.25 in dividends per share and you sold it for \$28 a share.

- 52. Refer to Exhibit 1.9. Calculate your holding period return (HPR) for this investment in GE stock.
 - a. 0.9655
 - b. 1.0086
 - c. 1.0357
 - d. 1.0804
 - e. 1.0973

ANS: B

HPR = (28 + 1.25)/29 = 1.0086

PTS: 1 OBJ: Multiple Choice Problem

- 53. Refer to Exhibit 1.9. Calculate your holding period yield (HPY) for this investment in GE stock.
 - a. -0.0345
 - b. -0.0090
 - c. 0.0086
 - d. 0.0643
 - e. 0.0804

ANS: C

HPY = (28 + 1.25)/29 - 1 = 1.0086 - 1 = 0.0086

PTS: 1 OBJ: Multiple Choice Problem

Exhibit 1.10

USE THE INFORMATION BELOW FOR THE FOLLOWING PROBLEM(S)

The annual rates of return of Stock Z for the last four years are 0.10, 0.15, -0.05, and 0.20, respectively.

- 54. Refer to Exhibit 1.10. Compute the arithmetic mean annual rate of return for Stock Z.
 - a. 0.03
 - b. 0.04
 - c. 0.06
 - d. 0.10
 - e. 0.40

ANS: D

PTS: 1 OBJ: Multiple Choice Problem

55. Refer to Exhibit 1.10. Compute the standard deviation of the annual rate of return for Stock Z.

a. 0.0070

b. 0.0088

c. 0.0837

d. 0.0935

e. 0.1145

ANS: D

Std Dev = $\sqrt{\frac{(0.10 - 0.10)^2 + (0.15 - 0.10)^2 + (-0.05 - 0.10)^2 + (0.20 - 0.10)^2}{4}}$

$$=\sqrt{\frac{0+.0025+.0225+.01}{4}}=\sqrt{\frac{.035}{4}}=.0935$$

PTS: 1 OBJ: Multiple Choice Problem

56. Refer to Exhibit 1.10. Compute the coefficient of variation for Stock Z.

a. 0.837

b. 0.935

c. 1.070

d. 1.145

e. 1.281

ANS: B

The coefficient of variation is equal to the standard deviation divided by the expected return.

.0935/10 = 0.935

PTS: 1 OBJ: Multiple Choice Problem

57. Refer to Exhibit 1.10. Compute the geometric mean rate of return for Stock Z.

a. 0.051

b. 0.074

c. 0.096

d. 0.150

e. 1.090

ANS: C

 $[(1.1)(1.15)(0.95)(1.2)]^{1/4} = 1.0958 - 1 = 0.0958$

PTS: 1 OBJ: Multiple Choice Problem

58. Economists project the long-run real growth rate for the next five years to be 2.5 percent and the average annual rate of inflation over this five year period to be 3 percent. What is the expected nominal rate of return over the next five years?

a. 0.500 percent

b. 1.056 percent

c. 2.750 percent

d. 5.500 percent

e. 5.575 percent

ANS: E

1 - (1.025)(1.03) = 1 - 1.05575 = 5.575%