BUS422 INTERNATIONAL FINANCE II

Chapter 12:International Portfolio Theory and Diversification

D) all of the above

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1) Beta may be defined as:				1)	
A) a risk measure of	a portfolio.			_	
B) the measure of sy	stematic risk.				
C) the ratio of the va	riance of the portfolio t	o the variance of the marke	t.		
D) all of the above					
2) risk is measur	ed with beta.			2)	
A) Unsystematic	B) International	C) Systematic	D) Domestic	_	
3) A fully diversified dom	estic portfolio has a bet	a of:		3)	
A) -1.0				_	
B) 0.0					
C) 1.0					
D) There is not enou	gh information to answ	er this question.			
4) Unsystematic risk:				4)	
A) can be diversified	l away.			_	
B) is measured with	beta.				
C) is the remaining r	isk in a well-diversifie	d portfolio.			
D) all of the above					
5) A well-diversified port	folio has about	_ of the risk of the typical ir	ndividual stock.	5)	
A) 27%	B) 8%	C) 19%	D) 52%	-	
6) An internationally dive	rsified portfolio:			6)	
_	as risky as the typical i	individual stock.		· -	
B) has the same over	rall risk shape as a pure	ely domestic portfolio.			
		beta than a purely domestic	portfolio.		
D) all of the above	•		•		
7) In some respects, intern	ationally diversified po	ortfolios are the same in prir	nciple as a domestic	7)	
portfolio because:	,	r	•	´ -	
A) investors are tryir	ng to reduce the total ris	sk of the portfolio.			
B) investors are tryir	ng to reduce systematic	risk.			
C) the investor is atte	empting to combine ass	sets that are perfectly correla	ated.		

	•	nationally diversified port	folios are different from a	domestic portfolio	8)
	because:	eave the country to acquir	o foreign securities		
		save the country to acquir so acquire foreign exchan	· ·		
	•		•	lace mat decrees risk	
	•	tiono diversification incre	eases expected return but c	ioes not decrease risk.	
	D) all of the above				
	action 16.1: ne information to answer the	e following question(s).			
-	otember 2009 a U.S. investor of d of one year the spot rate is		in German equity securities	es at a then current spot	rate of \$1.30/eu
	9) Refer to Instruction 16. investment?	1. How many euros will t	he U.S. investor acquire w	ith his initial \$500,000	9)
	A) €500,000	B) €384,615	C) €370,370	D) €650,000	
	10) Refer to Instruction 16. investor be able to pure		60/share, how many share	es of stock will the	10)
	A) 6173 shares	B) 6410 shares	C) 10,833 shares	D) 8333 shares	
	11) Refer to Instruction 16. price per share of €57. back into dollars?		he investor sells his stock t rage rate of return before c		11)
	A) 3.0%	B) 5.0%	C) -3.0%	D) -5.0%	
	12) Refer to Instruction 16. price per share of €57. Into dollars?		ne investor sells his stock t rage rate of return after cor		12)
	A) -5.0%	B) -1.35%	C) 5.0%	D) -7.24%	
	13) A U.S. investor makes pound appreciates aga		nd earns 14% on the invest What is the investor's tota		13)
	A) 23.12%	B) 6.00%	C) 4.88%	D) 22.00%	
	14) Which of the following	statements is NOT true?			14)
	A) An international	security adds value to a p	ortfolio if it reduces risk w	vithout reducing return.	
	B) Investors will de	mand a security that adds	s value.		
	C) International div	ersification benefits induc	ce investors to demand for	eign securities.	
	D) All of the above	are true.			
TRU	E/FALSE. Write 'T' if t	he statement is true a	nd 'F' if the statement	is false.	
	15) Portfolio diversification	n can eliminate 100% of ri	sk.		15)

1	 Increasing the number of securities in a portfolio re systematic risk. 	educes the unsystematic risk but not the	16)
1	7) International diversification benefits may induce in	nvestors to demand foreign securities.	17)
1	8) If the addition of a foreign security to the portfolio given level of return, then the security adds value t		18)
1	9) If the addition of a foreign security to the portfolio for a given level of risk, then the security adds valu	•	19)
MULTI questio	IPLE CHOICE. Choose the one alternative the	hat best completes the statement or answe	ers the
2	0) Portfolio theory assumes that investors are risk-av	erse. This means that investors:	20)
	A) prefer more risk to less for a given return.B) cannot be induced to make risky investments		
	C) will accept some risk, but not unnecessary risk.		
	D) All of the above are true.	JK.	
2	 The efficient frontier of the domestic portfolio oppo a) represents optimal portfolios of securities the expected portfolio return. 	-	21)
	B) contains the portfolio of risky securities that C) runs along the extreme left edge of the oppor D) all of the above		
2	 The addition of foreign securities to the domestic p frontier: 	ortfolio opportunity set shifts the efficient	22)
	A) up and to the left.	B) up and to the right.	
	C) down and to the left.	D) down and to the right.	
2	3) Relative to the efficient frontier of risky portfolios, located the efficient frontier.	it is impossible to hold a portfolio that is	23)
	A) on	B) to the left of	
	C) to the right or left of	D) to the right of	
2	4) The connects the risk-free security with t	he optimal domestic portfolio.	24)
	A) capital market line	B) security market line	
	C) capital asset pricing model	D) none of the above	

Instruction 16.2:

Use the information to answer the following question(s).

A U.S. investor is considering a portfolio consisting of 60% invested in the U.S. equity index fund and 40% invested in the Brit index fund. The expected returns for the funds are 10% for the U.S. and 8% for the British, standard deviations of 20% for the U.S. and British equity funds.

	25) Refer to Instruction 16.2. What is the expected return of the proposed portfolio?			25)		
	A) 9.0%	B) 9.2%	C) 19.2%	D) 19%		
	26) Refer to Instruction	16.2. What is the standard	d deviation of the propose	d portfolio?	26)	
	A) 19.00	B) 14.45	C) 38.00	D) 19.20		
ΓRU	JE/FALSE. Write 'T'	if the statement is tru	e and 'F' if the statem	ent is false.		
	27) The graph for the ef horizontal axis.	ficient frontier has beta or	n the vertical axis and stan	dard deviation of the	27)	
	•	he least risk among all tho um risk domestic portfolio	•	ic portfolio opportunity set	28)	
	29) The optimal domes	tic portfolio of risky secur	ities is always the portfoli	o of minimum risk.	29)	
	30) The standard deviation the individual asset	•	ım of the weighted averag	e standard deviations of	30)	
	31) The optimal domes found on the efficie		risk-free asset and a porti	folio of domestic securities	31)	
	32) The internationally o	liversified portfolio opportur	nity set shifts TO THE RIG	HT of the purely domestic	32)	

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

33) Draw the curve representing the Optimal Domestic Efficient Frontier. Be sure to draw and label the following: The vertical axis and the horizontal axis, the risk-free security, the minimum risk portfolio, the domestic portfolio opportunity set, the optimal domestic portfolio, and the capital market line. Choose a point along the domestic portfolio opportunity set between the optimal domestic portfolio and the minimum risk domestic portfolio and explain why that point is not the optimal risky domestic portfolio for investors to hold.

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answequestion.	ers the
34) The authors present a comparison of correlation coefficients between major global equity markets over a variety of different periods. The comparison yields a number of conclusions listed here EXCEPT:	34)
A) that same century of data, however, yields a high correlation between the U.S. and Canada (0.80).	
B) the correlation between equity markets for the full twentieth century shows quite low levels of correlation between some of the largest markets (close to 0.50 in some cases).	
C) the correlation coefficients between those same equity markets for selected sub periods over the last quarter of the twentieth century, however, show significantly different correlation coefficients.	
D) None of the answers listed are inaccurate conclusions.	
TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.	
35) Capital markets around the world are on average less integrated today than they were 20 years ago.	35)
36) In an empirical study on national market returns in the 20th century, Dimson, Marsh, and Staunton (2002) determined that the equity returns in the United States out-performed the other 15 countries in the study.	36)
37) In an empirical study on national market returns in the 20th century, Dimson, Marsh, and Staunton (2002) found that just under one-half of the 16 countries in the study had negative average returns in their equity markets.	37)
38) In an empirical study on national market returns in the 20th century, Dimson, Marsh, and Staunton (2002) determined that due to high levels of correlation or returns between countries, there is almost NO BENEFIT to international portfolio diversification.	38)
39) Of the major trading partners with the United States, Canada has among the LOWEST correlation of returns with the U.S.	39)
ESSAY. Write your answer in the space provided or on a separate sheet of paper.	
40) If an investor is able to determine a global beta for his portfolio and holds a portfolio that is well-diversity with international investments, which performance measure is more appropriate, the Sharpe Measure Treynor Measure? Why? Explain each performance measure.	

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

41) The Sharpe measure uses	as the measure of risk and the Treynor measure uses	41)	
as the measure of risk.			
A) standard deviation; beta	B) beta; standard deviation		
C) standard daylistian, variance	D) hoto verience		

TABLE 16.1
Use the information to answer following question(s).

	Risk-free Mean			
	Return	Mean Return	Standard	
Country	(Monthly %)	(Monthly %)	Deviation	Beta
Austria	0.42	0.77	6.52	1.02
France	0.42	1.18	6.76	1.08
Japan	0.42	1.08	6.66	1.21
Netherlands	0.42	1.39	4.93 0.8	9
United States	0.42	1.01	4.16	0.82

United Stat	es 0.42	1.01	4.16	0.82	
42)	Refer to Table 16.1. What i	s the value of the Sharpe	Measure fo	or France?	42)
	A) 0.0071		B) 0.113	3	
	C) either A or B		D) neith	ner A nor B	
43)	Refer to Table 16.1. What i	s the value of the Treyno	r Maasura f	for the Netherlands?	43)
73)	A) 0.0109	s the value of the freyho	B) 0.197		
	C) either A or B		*	ner A nor B	
				unt of risk as measured by r of risk according to the Sharp	
	A) France; Netherlands		B) Fran	ce; Austria	
	C) United States; Nether	erlands	D) Unit	ed States; Austria	
	The Sharpe and Treynor N portfolios:	Measures tend to be consi	stent in thei	ir ranking of portfolios wher	n the 45)
	A) are properly diversi	fied.	B) conta	ain only U.S. equity investm	ents.
	C) are poorly diversified			e of the above	
TRUE/FA	LSE. Write 'T' if the	statement is true and	l 'F' if the	statement is false.	
46)	The Sharpe and Treynor n	neasures are each measui	es of return	n per unit of risk.	46)
				amine returns by the amoun	t of 47)
	return per unit of risk acce	pted, rather than in isola	tion.		
		eynor measure is portfol	io risk as m	easured by the standard dev	viation 48)
	of the portfolio.				
		narpe measure is portfoli	o risk as me	easured by the standard dev	iation of 49)
	the portfolio.				
	The denominator of the Shas measured against the w		folio's beta,	the systematic risk of the po	ortfolio, 50)

51) The denominator of the Treynor measure is the portfolio's beta, the systematic risk of the portfolio, as measured against the world market portfolio.	51)

Answer Key

Testname: UNTITLED6

- 1) D
- 2) C
- 3) C
- 4) A
- 5) A
- 6) D
- 7) A
- 8) B
- 9) B
- 10) B
- 10) D
- 12) B
- 13) A
- 14) D
- 15) FALSE
- 16) TRUE
- 17) TRUE
- 18) TRUE
- 19) FALSE
- 20) C
- 21) D
- 22) A
- 23) B
- 24) A
- 25) B
- 26) B
- 27) FALSE
- 28) TRUE
- 29) FALSE
- 30) FALSE
- 31) TRUE
- 32) FALSE
- 33) The graph should look like that found in Exhibit 16.3. To answer the second part of the question, the student should draw a straight-line beginning at the point of the risk-free rate of return on the vertical axis and running through the point he/she just put on the opportunity set between the minimum risk portfolio and the optimal domestic portfolio. This graphical representation clearly shows that at any point other than holding 100% in the risk-free security, the expected risk and risk characteristics of the capital market line clearly dominate the new line just drawn.
- 34) D
- 35) FALSE
- 36) FALSE
- 37) FALSE
- 38) FALSE
- 39) FALSE

Answer Key

Testname: UNTITLED6

- 40) The Sharpe Measure is the ratio of excess returns above the risk-free rate of return to the standard deviation of the portfolio. The Treynor Measure substitutes the beta of the portfolio for the denominator. Thus Sharpe measures reward per unit of portfolio risk while Treynor measures reward per unit of systematic risk. In this example, the portfolio risk and systematic risk are equivalent so either measure is appropriate.
- 41) A
- 42) B
- 43) A
- 44) A
- 45) A
- 46) TRUE
- 47) TRUE
- 48) FALSE
- 49) TRUE
- 50) FALSE
- 51) TRUE