BUS421 INTERNATIONAL FINANCE I

Chapter 6: International Parity Conditions

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

1) If an identical product can be sold in two different markets, and no restrictions exist on the sale or transportation costs, the product's price should be the same in both markets. This is known as:				1)
· · · · · · · · · · · · · · · · · · ·			kets. This is known as:	
m A) the law of one pr $ m C)$ relative purchasi		B) equilibrium. D) interest rate pa	arity.	
2) The Economist publishe				2)
exchange rates for curr across the world and th	encies based on the assu herefore, the price shoul apan, what is the estima	_		
A) \$0.0086/¥	B) \$0.0081/¥	C) ¥124/\$	D) ¥115.75/\$	
2) Is the comment content of			af a Dia Maa baaabaaaa	2)
3) If the current exchange in the United States is \$		•	oan is 280 yen, then other	3)
things equal, the Big M	ac hamburger in Japan		-	
A) under priced.				
B) correctly priced.				
C) over priced.	ush information to data	mine if the price is appro	priete er pet	
D) There is not enou	ign information to deter	mine if the price is appro	priate or not.	
4) The price of a Big Mac PPP of the Peso per do		he price in Mexico is Peso	29.0. What is the implied	4)
A) Peso 11.76/\$1		B) Peso 10.8/\$1		
C) Peso 8.50/\$1		D) None of the ab	oove	
5) Assume the implied PF	PP rate of exchange of M	lexican Pesos per U.S. dol	lar is 8.50 according to the	5)
·	•	•	\$1. Thus, according to PPP	
	ice, at the current exchai	nge rate the peso is:		
A) overvalued.				
B) correctly valued.				
C) undervalued.				
D) There is not enou	ugh information to answ	er this question.		
6) According to the Big M	lac Index, the implied P	PP exchange rate is Mexic	can peso 8.50/\$1 but the	6)
actual exchange rate is	-	urrent exchange rates the	•	´
A) overvalued; appl	roximately 27%	B) undervalued:	approximately 27%	

D) overvalued; approximately 21%

C) undervalued; approximately 21%

, , ,	l, and assuming efficient mar			7)
tnen at an exchang A) £24,682	ge rate of $1.57/£$, the Honda B) £15,721	Accord snould cost C) £10,795	in Great Britain. D) £38,751	
A) £24,082	D) £15,721	C) £10,795	D) £38,751	
5 0	pot rate of U.S. dollars for Ca			8)
	J.S. has been 4% greater thar pot exchange rate of U.S. doll		=	
A) \$1/C\$				
B) \$1.04/C\$				
C) \$0.96/C\$				
D) Relative PPF	P provides no guide for this t	ype of question.		
	at differential rates of inflatio		tend to be offset over time	9)
	chasing Power Parity	(B) The Fisher Effe	ect	
	rchasing Power Parity	D) The Internatio		
10) Two general concl	usions can be made from the	empirical tests of purcha	asing power parity (PPP):	10)
	p well over the long run but untries with relatively high r		and the theory holds	
	p well over the long run but untries with relatively low ra		and the theory holds	
	p well over the short run but untries with relatively high r		and the theory holds	
	p well over the short run but untries with relatively low ra		and the theory holds	
	ncy that strengthened relative ferential in inflation is said to	_	5 5	11)
A) undervalued		B) under compen		
C) overvalued		D) over compens	ating	
12) If we set the <i>real ef</i>	fective exchange rate index bety	ween Canada and the Un	ited States equal to 100 in	12)
1998, and find that perspective the U.	t the U.S. dollar has risen to a S. dollar is:	value of 112.6, then fron	n a competitive	
A) very compet	titive.			
B) undervalued	d.			
C) overvalued.				
D) There is not	enough information to answ	er this question.		

 13) If we set the real effective exchange rate index between equal to 100 in 2005, and find that the U.S. dollar has competitive perspective the U.S. dollar is: A) undervalued. B) equally valued. C) overvalued. D) There is not enough information to answer this 	s changed to a value of 91.4, then from a	13)
 14) The government just released international exchange effective exchange rate index for the U.S. dollar vs the J 95 currently and is expected to fall still further in the to/from Japan think this is good news and news. 	apanese yen decreased from 105 last year to	14)
A) importers; importers	B) importers; exporters	
C) exporters; importers	D) exporters; exporters	
TRUE/FALSE. Write 'T' if the statement is true and 15) If a market basket of goods cost \$100 is the US and € would be \$.70/€.		15)
16) The assumptions for relative PPP are more rigid tha	n the assumptions for absolute PPP.	16)
17) Empirical tests prove that PPP is an accurate predict	or of future exchange rates.	17)
18) Consider the price elasticity of demand. If a product considered to have relatively <i>elastic</i> demand.	has price elasticity less than one it is	18)
ESSAY. Write your answer in the space provided or	on a separate sheet of paper.	
19) The authors state that empirical tests of purchasing paccurate in predicting future exchange rates." The autwo situations. What are some reasons why PPP does what conditions might we reasonably expect PPP to	uthors then state that PPP does hold up reasonal is not accurately predict future exchange rates, a	oly well in
MULTIPLE CHOICE. Choose the one alternative the question.	at best completes the statement or answe	ers the
 20) states that nominal interest rates in each coreturn plus compensation for expected inflation. 	ountry are equal to the required real rate of	20)
A) The Fisher Effect	B) Relative PPP	
C) The Law of One Price	D) Absolute PPP	

	-	be written as Whe expected rate of inflation		21)
A) $i = r + \pi$		B) $i = r + 2\pi$	711.	
C) $i = (r)(\pi)$		D) $i = r + \pi + (r)(7)$	τ)	
22) Assuma a nominal	interest rate on one-year l	IS Treasury Bills of 2.60%	and a real rate of interest	22)
	Fisher Effect Equation, wl	nat is the approximate exp		
A) 1.00%	B) 1.60%	C) 2.10%	D) 2.05%	
		J.S. Treasury Bills of 3.80% nat is the exact expected ra	and a real rate of interest te of inflation in the U.S.	23)
A) 1.84%	B) 1.76%	C) 1.72%	D) 1.80%	
24) The relationship be	tween the percentage char	nge in the spot exchange ra	ite over time and the	24)
	n comparable interest rates	s in different national capit		
A) relative PPP.		B) the internation		
C) absolute PPP		D) the law of one	price.	
		f an investor purchases a fi	•	25)
	investor must be expectin	•	that has an annual interest _ at a rate of at least 1% per	
A) U.S. dollar; d	_	B) British pound	revalue	
C) British pound	•	D) U.S. dollar; ap		
26) states that	the spot exchange rate sh	ould change in an equal ar	mount but in the opposite	26)
direction to the diff	erence in interest rates bet	ween two countries.		
A) The Fisher Ef	fect	B) Fisher-closed		
C) Fisher-open		D) none of the ab	ove	
27) Exchange rate pass-t	hrough may be defined as:			27)
${ m A})$ the PPP of les	sser-developed countries.			
B) the degree to exchange rate		ted and exported goods ch	ange as a result of	
•	_	ning the relative strength or rrent floating exchange rat		
	oread on currency exchang		Š	
		rts them to the United State		28)
		euro per player in Euroland t exchange rate is \$1.45/eu	d and \$150 per DVD ro and Phillips is charging	
\$160 per DVD play	er. What is the degree of p	ass through by Phillips N\	on their DVD players?	
A) 41.7%	B) 92%	C) 33.3%	D) 4.1%	

29)	29) Jaguar has full manufacturing costs of their S-type sedan of £22,803. They sell the S-type in the UK with a 20% margin for a price of £27,363. Today these cars are available in the US for \$55,000 which is the UK price multiplied by the current exchange rate of \$2.01/£. Jaguar has committed to keeping the US price at \$55,000 for the next six months. If the UK pound appreciates against the USD to an exchange rate of \$2.15/£, and Jaguar has not hedged against currency changes, what is the amount the company will receive in pounds at the new exchange rate?			29)	
	A) £27,363	B) £22,803	C) £25,581	D) £55,000	
30)	UK with a 20% margin for which is the UK price mult keeping the US price at \$55 USD to an exchange rate of the percentage margin the A) 20.0%	a price of £27,363. Today iplied by the current exc i,000 for the next six mon \$2.15/£, and Jaguar has	y these cars are avail change rate of \$2.01/9 nths. If the UK poun not hedged against	able in the US for \$55,000 E. Jaguar has committed to d appreciates against the currency changes, what is	30)
	11) 20.070	D) 15.376	C) 1.270	D) 12.470	
31)	DVDs would:	preciates against the U.S	S. dollar by 10% and ngs equal, the total do	. •	31)
	A) increase.		B) decline.		
	C) stay the same.		D) insufficient in	formation	
TRUE/F	ALSE. Write 'T' if the	statement is true and	l 'F' if the statem	ent is false.	
32)	The final component of the and π = the expected rate of simply too large for most V	of inflation, is often drop			32)
33)	Empirical studies show tha	t the Fisher Effect works	s best for short-term	securities.	33)
34)	The current U.S. dollar-yea the yen is at a forward prea	= -	ne 90-day forward e	xchange rate is ¥127/\$ then	34)
35)	The premium or discount or visually obvious when you currency of the country with	plot the interest rates of	f each country on the	e same yield curve. The	35)
36)	Use interest rate parity to a one-year U.S. security with return of 5%. If the spot rat costs, the investor should in	n an annual return of 4% e is \$1.43/£, the forward	s, and a comparable l rate is \$1.44/£, and t	British security with a	36)
37)	Both covered and uncovered default in the securities, the				37)
38)	All that is required for a co	vered interest arbitrage	profit is for interest i	rate parity to not hold.	38)

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

- 39) The authors describe an application of uncovered interest arbitrage (UIA) known as "yen carry trade." Define UIA and describe the example of yen carry trade. Why would an investor engage in the practice of yen carry trade and is there any risk of loss or lesser profit from this investment strategy?
- 40) The Fisher Effect is a familiar economic theory in the domestic market. In words, define the Fisher Effect and explain why you think it is also appropriately applied to international markets.

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

41) If the forward rate is a	n unbiased predictor of the	e expected spot rate, which	of the following is	41)
NOT true?			3	, <u> </u>
A) The distribution	of possible actual spot rat	es in the future is centered	on the forward rate.	
B) The expected va 2 delivery, avail	•	at time 2 equals the presen	t forward rate for time	
C) The future spot	rate will actually be equal	to what the forward rate p	redicts.	
D) All of the above	• •	·		
42) Which of the followin	g is NOT an assumption of	f market efficiency?		42)
A) Instruments der	nominated in other currenc	ies are perfect substitutes f	or one another.	·
B) All relevant info	rmation is quickly reflecte	d in both spot and forward	l exchange markets.	
	s are low or nonexistent.	·	· ·	
D) All of the above				
42) =		The first test officers of		42)
43) Empirical tests have y	n markets are	about market efficiency wil	n a general consensus	43)
A) consistent; ineff		B) conflicting; efficie	nt	
C) conflicting; not		D) none of the above		
C) connicting, not	erricient	D) Holle of the above	•	
44) A is an exchange rate quoted today for settlement at some time in the future.				44)
A) spot rate	B) yield curve	C) currency rate	D) forward rate	
45) Assume the current U	.S. dollar-British spot rate	is 0.6993£/\$. If the current	nominal one-vear	45)
	. is 5% and the comparable	e rate in Britain is 6%, what		
A) £0.6993/\$	B) £0.7060/\$	C) £1.42/\$	D) £1.43/\$	
46) Assume the current III	C dollar van anat rata is (20 V/¢ Further the current	nominal 100 day rata	46)
46) Assume the current U	5 ,	ites. What is the approxima		40)
rate for 180 days?	o and 270 m the ornited sit	ites. viriat is the approxima	ne for ward exchange	
A) ¥90.89/\$	B) ¥89.55/\$	C) ¥89.12/\$	D) ¥90.45/\$	

4	the yen is selling at a per annum of	3	47)
	A) discount; 6.30%	 B) premium; 6.30%	
	C) discount; 1.57%	D) premium; 1.57%	
4	48) The theory of states that the difference in similar risk and maturity should be equal to but op premium for the foreign currency, except for transa	posite in sign to the forward rate discount or	48)
	A) the law of one price	B) absolute PPP	
	C) international Fisher Effect	D) interest rate parity	
4	19) With covered interest arbitrage:		49)
	A) a "riskless" arbitrage opportunity exists.		´
	B) the arbitrageur trades in both the spot and fur	ture currency exchange markets.	
	C) the market must be out of equilibrium.		
	D) all of the above		
:	50) Covered interest arbitrage moves the market	equilibrium because	50)
	 A) away from; purchasing a currency on the spo increases the differential between the two 	ot market and selling in the forward market	
	 B) toward; purchasing a currency on the spot m narrows the differential between the two 	arket and selling in the forward market	
	C) toward; investors are now more willing to inv	vest in risky securities	
	D) away from; demand for the stronger currency	y forces up interest rates on the weaker security	
rue	/FALSE. Write 'T' if the statement is true and	'F' if the statement is false.	
:	51) If exchange markets were not efficient, it would pay	y for a firm to spend resources on forecasting	51)
	exchange rates.		
:	52) If the forward exchange rate is an unbiased predictor	or of future spot rates, then future spot rates	52)
	will always be equal to current forward rates.		
:	53) COVERED interest arbitrage (CIA), is where investigations and convert		53)
	exhibiting relatively low interest rates and convert higher interest rates. The transaction is "covered," by yielding currency proceeds forward.		

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

54) According to the International Fisher Effect, the forecast change in the spot rate between two countries is equal to:	54)
$\stackrel{\cdot}{A}$) but the opposite sign to the difference between nominal interest rates.	
B) but the opposite sign to the difference between real interest rates.C) the current spot rate multiplied by the ratio of the inflation rates in the respective countries.	
D) but the opposite sign to the difference between inflation rates.	
TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.	
55) In their approximate form, PPP, IRP, and forward rates as an unbiased predictor of the future spot rate lead to similar forecasts of the future spot rate.	55)

Answer Key

Testname: UNTITLED2

- 1) A
- 2) D
- 3) A
- 4) C
- 5) C
- 6) C
- 7) B
- 8) B
- 9) A
- 10) A
- 11) C 12) C
- 13) A
- 14) C
- 15) FALSE
- 16) FALSE
- 17) FALSE
- 18) FALSE
- 19) PPP does not hold because goods and services do not move without cost between countries and markets. Often, goods and services are nor perfect substitutes in every market for reasons of availability, taste, quality, and production techniques. Having said that, PPP does appear to work reasonably well over the long run and especially in countries with higher rates of inflation and underdeveloped capital markets.
- 20) A
- 21) A
- 22) B
- 23) B
- 24) B
- 25) D
- 26) C
- 27) B
- 28) A
- 29) C
- 30) D
- 31) B
- 32) FALSE
- 33) TRUE
- 34) FALSE
- **35) TRUE**
- 36) FALSE
- 37) FALSE
- **38) TRUE**

Testname: UNTITLED2

- 39) UIA is the practice of investors borrowing money in countries where interest rates are relatively low, converting the loan proceeds into a currency where rates are relatively high, investing at the higher rate, subsequently converting the proceeds back into the original currency to repay the proceeds from the loan and hopefully realizing a greater return from this practice than if the borrowing and investing had all taken place in the original currency. The arbitrage is uncovered because at the time of the investment the investor does not lock in a forward exchange rate and therefore bears the risk that currency exchange rates will change in an unfavorable manner. The yen carry trade exists because rates in Japan are so very low that investors borrow yen, convert to another currency, say U.S. dollars, invest at much higher interest rates, often in default-risk free Treasury securities, then convert back to yen, repay the original loan and walk away with a significantly greater return than otherwise available. The risk in this process is neither from the investment nor from the loan. The risk is that exchange rates may change unfavorably and the investor takes a loss rather than a profit.
- 40) Irving Fisher was an early 20th century economist who hypothesized that all market determined nominal interest rates had at least two basic components. First, a real return is required to compensate investors for postponing current consumption. This real rate is constant and unaffected by expectations about inflation. Second, an expected inflation component is required so that investors would not expect to lose purchasing power by the act of forgoing current consumption. Intuitively, if capital can move freely among international markets these same requirements must exist in each of the capital markets and the Fisher Effect would apply internationally as well as domestically.
- 41) C
- 42) D
- 43) C
- 44) D
- 45) B
- 46) B
- 47) A
- 48) D
- 49) D
- 50) B
- 51) TRUE
- 52) FALSE
- 53) FALSE
- 54) A
- **55) TRUE**