INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Department of Humanities and Social Sciences Mid-Autumn Semester Examination - 2022-23

Date: September 26, 2022

Full Marks: 30

Time: 9.00 - 11.00 am

Sub. Code: HS50025

International Finance

Answer all the questions

Please refer values given in table 1-3 for questions 1-5 as applicable

Assume values in case required

No queries during the examination

36-, 64

- 1. Examine the cross-spot rates. Are there any triangular arbitrage opportunities among these currencies (assume deviation from theoretical cross rates of 5 points or less are attributable to transaction cost)? How much profit could be made on a \$5 million transaction? [4 marks]
- What would be the \$/SDR bid if the SDR appreciates 15% against the dollar? What would be the SDR/\$ offer rate if the SDR appreciates 15%. 3 marks
- Which currency are at a dollar discount and which are at a dollar premium? What are the outright forward rates for the pound? For the French franc? Using the midpoints of the bid-ask spreads, what are the forward premia or discounts on an annualised percentage basis for both these currencies? [4 marks]
 - 4. A private speculator expects the yen to depreciate 7% against the dollar over the next three months. How can the speculator try to profit on these expectations through a spot market transaction only, and b) forward market transaction only assume no margin requirements or restrictions on transaction in credit market)? What will be the expected dollar profit on a \$1 million position in each case? What other consideration should factor into the speculator's choice between the spot and forward markets for purpose of profiting on future movement of the yen? [6 marks]
- 5. Compare the one year forward premium or discount on the French franc to the one year Eurodollar and Eurofranc interest rates. How can this situation be arbitraged?

 [3 marks]
- 6. Discuss how money supply and interest rate influence the exchange rate in the short run? Explain the reasons for the same. [5 marks]

7. Explain the link between current and capital account using the S-I framework. Show how the interaction of these accounts determine the real exchange rate. [5 marks]

Table 1: Spot and Forward Exchange Rates

	Currone	T. Opot	and Forwa	ard Exchang	ge Rates		
\$ 500 FF/\$ Ten/\$ \$7502	Yen Yen	1.4890/00 2.0310/20 6.6575/625 154.20/30 1.2141/43	1 Month 55/52 22/18 73/86 8/6 5/3	3 Months 160/156 64/54 263/296 33/27 12/8	6 Months 302/289 128/105	560/523 277/228	com rate
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Table 2: Cross-spot Exchange Rates *

	-For Exchange Rates
I DM	4 FF
DM .	100 Yell
FF 3.2779 88	3050/51 1.3169/7
Yen (75.92) (350)	23.1595/618
* Onotes should by	

* Quotes should be interpreted as units of the currency represented in the left-hand column per unit of currency shown in the top row Quotes for the DM/yen and FF/yen are ex-

pressed in units per 100 yen.

Table 3: Eurocurrency Interest Rates

(1)		7		
Currency	Month	3 Month	6 Month	12 Month
U.S. Dollar	5.687 -5.8125	5.5960-5.6250	5.5000-5.6250	5.6250-5.7500
Sterling	10.0625-10.1875	9.8750-9.9375	9.6875-9.7500	9.6250-9.7500
Deutsche mark	1.3010-4.0025	4.3125-4.4375		4.3125-4.4375
French France Yen	7.1250-7.2500	7.1875-7.3125		7.2500-7.3750
	5 1250 5 1000	4.7500-4.8125	4.6250-4.6875	4.6250-4.6875
SDR	5.9375-6.0625	5.8125-5.9375	5.7500-5.8750	5.8125-5.9375