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Exam in "International Finance"

Summer semester 2018

Total points: 60 Points

For all questions: Please label all graphics thoroughly and completely describe the notation of all formulas and variables!

Question 1: Mundell-Fleming Model (20 Points)

a) Define the Balance of Payments and its determinants formally. (4 points)

b) Using the total differential, explain why the ZZ-Curve has a positive slope. (4 Points)

c) Explain the effects of an expansionary monetary policy in a flexible and a fixed exchange rate regime by using appropriate graphs. (Assume perfect capital mobility) (8 Points)

d) Name two points of criticism regarding the Mundell-Fleming-Model. (4 Points)

Question 2: Interest rate parity and exchange rate determination (20 Points)

a) Give a formal definition of the uncovered interest rate parity (UIP) between two countries with different currencies. (2 Points)

- b) The following two EViews-Outputs display the results of an empirical test of the uncovered interest rate parity between Germany and the USA.
 - with $DIFF_E \cong$ Difference of the exchange rate between the two countries

DIFF_R \cong Difference of the interest rates of both countries

Dependent Variable: DIFF_E Method: Least Squares Date: 05/02/18 Time: 14:14 Sample: 2000M01 2017M12 Included observations: 216

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C DIFF_R	0.000205 0.998109	0.003633 0.001122	1.873118 889.7722	0.3246 0.0000
R-squared Adjusted R-squared S.E. of regression Sum squared resid Log likelihood F-statistic Prob(F-statistic)	0.999896 0.999895 0.009785 0.007852 270.4779 791694.6 0.000000	Mean depender S.D. dependent Akaike info crite Schwarz criterio Hannan-Quinn Durbin-Watson	nt var var erion on criter. stat	3.096786 0.955741 -6.392331 -6.334455 -6.369066 1.260983

Wald Test: Equation: Untitled			
Test Statistic	Value	df	Probability
F-statistic Chi-square	201021.4 402042.9	(2, 146) 2	0.0000 0.0000

Null Hypothesis: C(1)=0, C(2)=1 Null Hypothesis Summary:

Normalized Restriction (= 0)	Value	Std. Err.
C(1)	-0.001522	0.002135
-1 + C(2)	-1.000665	0.001581

Restrictions are linear in coefficients.

b) i) Write down the equation for the regression of the first output. (2 Points)

b) ii) What values do you expect for the coefficients on the interest rate differential and the constant, if the uncovered interest rate parity holds? (2 Points)

b) iii) Interpret the results of the two outputs with regard to the validity of the uncovered interest rate parity. (6 Points)



b) iv) Name two reasons why the uncovered interest rate parity often does not hold.

(2 Points)

 c) Assume the exchange rate is determined by the monetary model (Dornbusch model). Graphically show and explain the effect of a domestic increase of the money supply. Start with the equilibrium situation on the money and exchange market and only consider the short-run effects.
(6 Points)

Question 3: Boom-Bust-Cycles and growth (20 Points)

a) Name two possible effects systemic risk can have on growth. (4 Points)

b) The incentive compatibility condition in the 1-Sector-Model with risky investment is as follows:

 $u (1 + i) b_t \le h (w_t + b_t)$

with $i \cong$ interest rate, $b \cong$ credit, $h \cong$ measure for legal system, $w \cong$ initial wealth $1 - u \cong$ probability of a systemic crisis.

Explain the equation and argue why it is necessary!

(4 Points)

c) Derive the financial multiplier starting from the following condition of the 1-Sector-Model with risky investment: $u(1 + i) b_t = h(w_t + b_t)$ (6 Points)

d) How does the probability of crisis influence the credit volume? (2 F

(2 Points)

e) Does this result imply that risk-taking is a first-best, welfare enhancing policy? (4 Points)

The Chair of International Economic Policy wishes you best success!

Please sign the exam on the last page before handing it in.