Study Questions

Lecture 13
Exchange Rates

Part 1: Multiple Choice

Select the best answer of those given.

1. The statement “the yen rose today from 121 to 117” makes sense because
   a. The U.S. gains when Japan loses.
   b. These numbers measure yen per dollar, not dollars per yen.
   c. These numbers are indexes, defined relative to a base of 100.
   d. These numbers refer to time of day that the change took place.
   e. The yen is a reserve currency.

2. The price at which one can enter into a contract today to buy or sell a currency 30 days from now is called a
   a. Reciprocal exchange rate.
   b. Effective exchange rate.
   c. Exchange rate option.
   d. Forward exchange rate.
   e. Multilateral exchange rate.

3. Forward exchange rates are useful for those who wish to
   a. Protect themselves from the risk that the exchange rate will change before a transaction is completed.
   b. Gamble that a currency will rise in value.
   c. Gamble that a currency will fall in value.
   d. Exchange currencies at a point in time in the future.
   e. All of the above.
4. According to the Purchasing Power Parity theory, the value of a currency should remain constant in terms of what it can buy in different countries of

a. Bonds
b. Stocks
c. Goods
d. Labor
e. Land

5. Suppose the following facts (not all of which are relevant to the answer):
- Yesterday the exchange rate between the British pound and the US dollar was 2.00 £/$.
- The interest rate in the U.S. is 6% per year.
- The rate of inflation in the U.K. is 1% per year.
- The public expects the exchange rate tomorrow to be 1.92 £/$.
- The rate of inflation in the U.S. is 3% per year.
- The interest rate in the U.K. is 5% per year.
- The U.S. bilateral trade deficit with the U.K. is 2% of U.S. GDP.

Then according to the asset theory of exchange rate determination, the exchange rate today should be approximately

a. 1.92 £/$
b. 1.96 £/$
c. 1.98 £/$
d. 2.00 £/$
e. 2.02 £/$

6. Based on the supply and demand model of the exchange rate, which of the following should cause the Philippine peso to appreciate?

a. Concern abroad over the safety of Philippine toy exports.
b. An increase in remittances from Philippine workers abroad to their families at home.
c. Repayment by the Philippine government of its debt to the IMF.
d. Increased imports by Philippine consumers of electronics made in Taiwan.
e. An increase in Philippine savings that is used to purchase financial assets in Europe.
Part II: Short Answer

Answer in the space provided.

1. The table at the right shows hypothetical values for the consumer price indexes (CPI) of the U.S., the U.K., and Japan in 2004 and 2008. Their currencies are also indicated as the dollar ($), pound (£), and yen (¥) respectively. Suppose that exchange rates in 2004 were

<table>
<thead>
<tr>
<th>Currency</th>
<th>U.S.</th>
<th>U.K.</th>
<th>Japan</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPI 2004:</td>
<td>100</td>
<td>200</td>
<td>150</td>
</tr>
<tr>
<td>CPI 2008:</td>
<td>120</td>
<td>230</td>
<td>165</td>
</tr>
</tbody>
</table>

a. Calculate the following exchange rates for 2004:

2004: $/£ = 1.60, ¥/$ = 100, and ¥/£ = 160

2004: £/$ = ______________

$/¥ = ______________

£/¥ = ______________

b. Calculate the following exchange rates for 2008, assuming that the Purchasing Power Parity Theory holds:

2008: $/£ = ______________

¥/$ = ______________

¥/£ = ______________
2. For each of the following changes, represent the change by an appropriate shift of the supply and/or demand curves for currency shown at the right. Then record whether the indicated currency appreciates or depreciates as a result of the change, by circling the appropriate word.

a. A new model of Jeep, made in America, is successful in sales to Germany (taken here to be still using the Deutsche Mark (DM)).

The DM appreciates

depreciates

b. Japan reduces its interest rate compared to the U.S., causing investors to sell Japanese bonds and buy U.S. bonds.

The $ appreciates

depreciates

c. Germans, unhappy with monetary unification, transfer their bank balances to the U.K.

The £ appreciates

depreciates
3. Define and explain the difference between the following pairs of terms:

   a. Spot market
      Forward market

   b. Interest rate
      arbitrage
      Covered interest
      arbitrage

   c. Real exchange
      rate
      Nominal
      exchange rate

4. Each term in the following list is essentially a synonym for another in the same list. Identify these pairs by putting the letter of the synonym in the blank provided.

   Term                      Means essentially the same as
   a. appreciation           ____________
   b. supply of foreign currency ____________
   c. law of one price        ____________
   d. dirty float             ____________
   e. floating exchange rate  ____________
   f. devaluation             ____________
   g. demand for domestic currency ____________
   h. pegged exchange rate    ____________
   i. revaluation             ____________
   j. fixed exchange rate     ____________
   k. managed float           ____________
   l. depreciation            ____________
   m. purchasing power parity ____________
   n. flexible exchange rate  ____________