Study Questions
(with Answers)

Lecture 14
Pegging the Exchange Rate

Part 1: Multiple Choice

Select the best answer of those given.

1. Suppose the central bank of Mexico is pegging its currency, the peso, to the U.S. dollar at a rate of $0.10/peso. If on a particular day the demand for pesos exceeds the supply by 1.3 billion pesos, the central bank will

   a. Use its reserves of U.S. dollars to buy 1.3 billion pesos.
   b. Prohibit individuals from selling pesos for more than the official rate.
   c. Add to its dollar reserves by $130,000,000.
   d. Devalue the peso.
   e. Buy 1.3 billion pesos on the open market and sell them to those whose demands are not being met by private supply

   Ans: c

2. Under a crawling peg
   a. The exchange rate moves, but by amounts too little to notice.
   b. The exchange rate is permitted to change only slowly within the band.
   c. The par value of the currency is kept secret and changed slowly over time.
   d. The central bank intervenes to slow down exchange rate movements during a day.
   e. The central value of a pegged exchange rate is changed frequently, by small amounts, and with advance notice.

   Ans: e
3. When a central bank is trying to maintain an over-valued currency by buying its own currency on the foreign exchange market, sterilization of that transaction means for it to
   a. Buy foreign currency
   b. Sell foreign currency
   c. Buy domestic bonds
   d. Sell domestic bonds
   e. Devalue

   Ans: c

4. Sterilization of exchange-market transactions by a central bank means to prevent those transactions from affecting
   a. The level of its reserves
   b. The level of the domestic money supply
   c. The level of the foreign money supply
   d. The spot exchange rate
   e. The forward exchange rate

   Ans: b

5. If Canada were pegging the Canadian dollar to the U.S. dollar and also trying to sterilize the effects of its exchange market intervention, then when it buys U.S. dollars on the foreign exchange market, it should
   a. Sell Canadian government bonds.
   b. Buy Canadian government bonds.
   e. Sell Canadian dollars.

   Ans: a

6. If a country’s currency is undervalued, and if its central bank is pegging its exchange rate but not sterilizing the effects of its intervention, then which of the following will happen?
   a. Its central bank will sell its own currency on the foreign exchange market.
   b. Its central bank will gain reserves of foreign currency.
   c. The country’s money supply will expand.
   d. The central bank will buy foreign currency on the foreign exchange market.
   e. All of the above.

   Ans: e
7. Which of the following was **not** true of the Bretton Woods system of exchange rates?
   a. The official value of the U.S. dollar was fixed to gold.
   b. The IMF prohibited all member countries, except the United States, from devaluing their currencies.
   c. Currencies other than the U.S. dollar were pegged to the dollar.
   d. Central banks other than the Fed used U.S. dollars as reserves.
   e. Persistent U.S. deficits led to an accumulation of dollars outside the United States.

   **Ans:**  b

8. What is Section 421?
   a. The provision in the International Monetary Fund that requires countries to devalue their currencies when they are losing international reserves.
   b. The requirement that the United States Federal Reserve sterilize the effects of its exchange-rate intervention.
   c. The portion of the IMF’s holdings of currency that is held in US dollars.
   d. The Special China Safeguard, negotiated as part of the agreement to let China into the World Trade Organization.
   e. The department within the European Commission responsible for managing exchange rates.

   **Ans:**  d (see Levy)

9. How has the yuan/dollar exchange rate (the value of the US dollar in Chinese yuan) behaved during the 21st century?
   a. It has remained at a constant level throughout the decade, due to Chinese intervention in the exchange market.
   b. It has fluctuated around a rising trend.
   c. It has fluctuated around a falling trend.
   d. It was constant for six years, rose for two and a half years, was constant again until summer 2010, when it rose again.
   e. It was constant for six years, fell for two and a half years, was constant again until summer 2010, when it fell again.

   **Ans:**  e
Part II: Short Answer

Answer in the space provided.

1. What are the three rules of the gold standard? That is, what are the rules that a central bank of a country must follow in order to maintain a “gold exchange standard?”

   i. **Fix the value of the currency in terms of gold.** (When two countries do this, it also fixes the exchange rate between their two currencies.)

   ii. **Keep the supply of domestic money fixed in some constant proportion to their supply of gold.** (Thus their money supply rises and falls as they acquire and lose gold.)

   iii. **Stand ready to redeem their own currency with payments in gold, and permit gold to be exported and imported.** (This both causes the market exchange rate to equal the official one, and causes the gold stock, and hence the money supply, to respond to excess supply and demand for the currency.)

2. Define or explain

   a. **Dollarization**

      *Adoption of the U.S. dollar as the currency of a country other than the United States.*

   b. **Over-valued exchange rate**

      *A pegged exchange rate that is set higher than (that is, appreciated with respect to) the rate at which supply would equal demand for foreign exchange in the absence of exchange market intervention (or the rate dictated by Purchasing Power Parity).*

   c. **Managed float**

      *An exchange regime in which central banks occasionally sell or buy their own currency as they try to nudge their exchange rate up or down.*
3. In each of the following examples, a currency is being pegged to another at the exchange rate shown as $\overline{E}$, and the central bank is either sterilizing or not sterilizing, as stated. For each example, do the following:

i. First, fill in the first set of blanks by checking the correct responses, as indicated, to say what is happening in the initial situation.

ii. Second, analyze the indicated change by shifting the appropriate curve or curves in the diagram.

iii. Third, fill in the second set of blanks, by checking responses, to say what happens as a result of the change.

a. Germany’s central bank, the Bundesbank, is pegging its currency the deutsche mark, DM, to the US dollar, and it is not sterilizing.

i. In the initial situation, the Bundesbank is………….  
   - Gaining  
   - ✓ Losing  
   - Not changing

   its international reserves, and the German money supply is…………………………………………
   - Expanding  
   - ✓ Contracting  
   - Not changing

ii. Now, the demand for exports of German cars expands. (Show this in the diagram.)

   Ans: The $S_S$ curve shifts to the right.

   ![Diagram](image)

iii. As a result, the Bundesbank will………….  
    - Increase  
    - ✓ Decrease  
    - Not change

   the pace at which it intervenes.
b. The United States central bank, the Fed, is pegging the US dollar to the British pound (£), and it is sterilizing.

i. In the initial situation, the Fed is ..................  √ Buying
                                                ___ Selling
                                                ___ Neither
British pounds on the foreign exchange market, and ...................................................  ___ Buying
                                                √ Selling
                                                ___ Neither
bonds on the U.S. bond market.

ii. Now, interest rates in the United Kingdom go down. (Show this in the diagram.)

   Ans: The $/£ curve shifts to the right and/or the D£ curve shifts to the left.

iii. As a result, the Fed will ...................... √ Increase
                                                ___ Decrease
                                                ___ Not change
the pace at which it buys/sells pounds, and the U.S. money supply will .............. ___ Expand more rapidly
                                                ___ Expand less rapidly
                                                ___ Contract more rapidly
                                                ___ Contract less rapidly
                                                √ Continue to remain constant
c. The Mexican central bank, Banco de México, is pegging the peso (here denoted “p”) to the U.S. dollar ($), and it is not sterilizing.

i. In the initial situation, Banco de México is……….  ✓ Buying 
    ____ Selling
    ____ Neither

    pesos on the foreign exchange market, and ……..  ____ Buying
    ____ Selling
    ✓ Neither

    bonds on the Mexican bond market.

ii. Now, Mexico devalues the peso. (Show this in the diagram.)
    Ans: The supply and demand curves do not shift, but $E$ increases and the horizontal line at $E$ shifts up.

    

    iii. As a result, Banco de México will……………….  ____ Increase
         ✓ Decrease
         ____ Not change

    the pace at which it buys/sells dollars, and the Mexican money supply will………….  ____ Expand more rapidly
         ____ Expand less rapidly
         ____ Contract more rapidly
         ✓ Contract less rapidly
         Continue to remain constant