

Review Notes – Money, Inflation, and Unemployment

- Money
 - What is money/what does money do?
 - Store of value
 - Medium of exchange
 - Measure of value
 - Standard of deferred payment
 - What characteristics are required for good money?
 - Durability
 - Divisibility
 - Homogeneity
 - Portability
 - Stability of supply
 - Relative scarcity
 - Commodity money
 - Definition = money which has some intrinsic value (i.e., value in use)
 - Advantages and disadvantages
 - Fiat money
 - Definition = money which has no intrinsic value (i.e., no value in use)
 - Advantages and disadvantages
 - The supply of money
 - What is currency?
 - Measures of the supply of money
 - M_1 = currency + Demand Deposits (what are those?)
 - M_2 = M_1 + small time deposits (what are those?)
 - M_3 = M_2 + large time deposits + institutional money market funds
 - L = M_3 + other liquid assets
 - What is the difference between these different measures?
 - The Creation of money
 - The reserve ratio (rr) = the percent of deposits which are not loaned out.
 - Use the following assumptions to see how money is created
 - All banks have the same reserve ratio (rr)
 - No banks hold excess reserves (reserves in excess of that implied by rr)
 - There are no cash drains from the system
 - What happens when \$1,000 in extra money is deposited into a demand deposit account?
 - What is a t-account?
 - Assuming the rr=20 percent, the bank will
 - Keep \$200 on hand to meet cash requirements

- Loan out \$800 to another customer
 - What does that customer do with the \$800? Deposit it in a bank => demand deposits increase by a further \$800
- Hence, the bank will loan out a further \$640, which will be deposited in a bank
- Hence, the bank will loan out a further \$512, which will be deposited in a bank
- Hence, the bank will loan out a further \$410, which will be deposited in a bank
- Hence, the bank will loan out a further \$328, which will be deposited in a bank
- etc.
- Every time demand deposits increase => the money supply increases
- How much in total has the money supply increased?
 - \$1,000 increase in the money supply from the initial \$1,000 deposit
 - Plus \$4,000 additional increase in the money supply through fractional reserve banking
- The potential money multiplier = m_p = for every dollar in additional deposits, how much could the money supply increase?
 - $m_p = 1/rr$ (why? remember that rr = reserve ratio)
- The actual money multiplier = m_a = for every dollar in additional deposits, how much does the money supply increase?
- Controlling the Supply of money
 - What is monetary policy?
 - Who controls monetary policy?
 - The Federal Reserve (what's that?)
 - How does the Fed control the money supply
 - Discount rate
 - Legal reserve ratio
 - Open market operations
 - Etc.

- Inflation
 - Demand for money
 - Transactions demand for money
 - Quantity exchange equation – $MV = PY$
 - Define all terms and know what they mean
 - Real demand for money ($M/P=kY$ – what's k ?)
 - Why does money supply determine nominal GDP (PY)?
 - Why do increases in the money supply simply cause inflation?

- Interest rates
 - Real interest rates vs. Nominal interest rates
 - How are they related?
 - $i = r + \pi$
 - Which of the two is the cost of holding money?
 - Costs of inflation
 - When inflation is expected
 - Shoe leather costs
 - Menu or re-pricing costs
 - Distortion costs
 - Cost of living costs
 - Inconvenience
 - When inflation is unexpected
 - Losers = creditors/those on fixed incomes
 - Winners = debtors
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- Unemployment
 - Definitions
 - Natural rate of unemployment
 - Employed
 - Unemployed
 - Labor force
 - Labor force participation rates
 - Unemployment rate
 - Voluntary unemployment
 - Involuntary unemployment
 - Types of unemployment
 - Frictional unemployment
 - Structural unemployment
 - Seasonal unemployment
 - Cyclical unemployment
 - Induced unemployment
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