

# AP<sup>®</sup> Macroeconomics 2007 Free-Response Questions

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#### 2007 AP® MACROECONOMICS FREE-RESPONSE QUESTIONS

## **MACROECONOMICS**

Section II
Planning Time—10 minutes
Writing Time—50 minutes

**Directions:** You have 50 minutes to answer all three of the following questions. <u>It is suggested that you spend approximately half your time on the first question and divide the remaining time equally between the next two questions.</u> In answering the questions, you should emphasize the line of reasoning that generated your results; it is not enough to list the results of your analysis. Include correctly labeled diagrams, if useful or required, in explaining your answers. A correctly labeled diagram must have all axes and curves clearly labeled and must show directional changes. Use a pen with black or dark blue ink.

- 1. Assume that declining stock market prices in the United States cause many United States financial investors to sell their stocks and increase their money holdings.
  - (a) Draw a correctly labeled graph of the money market and show the impact of the financial investors' actions on each of the following.
    - (i) Demand for money
    - (ii) Nominal interest rate
  - (b) Due to the decline in wealth caused by the change in stock prices, the general price level in the United States falls relative to the price level in Japan, a trading partner. Use a correctly labeled graph of the foreign exchange market for the United States dollar to show the impact of the change in relative price levels on each of the following.
    - (i) Demand for the dollar
    - (ii) Price of the dollar (yen/dollar)
  - (c) How will the change in the price of the dollar you indicated in part (b) (ii) affect net exports of the United States? Explain.
  - (d) Using a correctly labeled aggregate demand and aggregate supply graph, show how the change in net exports in part (c) will affect each of the following in the short run.
    - (i) Aggregate demand
    - (ii) Output and price level
  - (e) Given your answers to part (d), what will happen to unemployment in the short run? Explain.

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- 2. In recent years, the Federal Reserve has made targeting the federal funds rate a main focus of its monetary policy.
  - (a) Define the federal funds rate.
  - (b) If the Federal Reserve wants to lower the federal funds rate, what open-market operation would be appropriate?
  - (c) Assume that the open-market operation that you indicated in part (b) is equal to \$10 million. If the required reserve ratio is 0.2, calculate the maximum change in loans throughout the banking system.
  - (d) Indicate the effect of the open-market operation that you indicated in part (b) on the nominal interest rate.
  - (e) Assume that the Federal Reserve's action results in some inflation. What would be the impact of the open-market operation on the real rate of interest? Explain.
- 3. Indicate whether each of the following is counted in the United States gross domestic product for the year 2006. Explain each of your answers.
  - (a) The value of a used textbook sold through an online auction in 2006
  - (b) Rent paid in 2006 by residents in an apartment building built in 2000
  - (c) Commissions earned in 2006 by a stockbroker
  - (d) The value of automobiles produced in 2006 entirely in South Korea by a firm fully owned by United States citizens

**STOP** 

**END OF EXAM**