



**AP® Macroeconomics
2009 Free-Response Questions
Form B**

The College Board

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2009 AP® MACROECONOMICS FREE-RESPONSE QUESTIONS (Form B)

MACROECONOMICS

Section II

Planning Time—10 minutes

Writing Time—50 minutes

Directions: You have 50 minutes to answer all three of the following questions. 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. 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. The unemployment rate in the country of Southland is greater than the natural rate of unemployment.
 - (a) Using a correctly labeled graph of aggregate demand and aggregate supply, show the current equilibrium real gross domestic product, labeled Y_C , and price level in Southland, labeled PL_C .

The president of Southland is receiving advice from two economic advisers—Kohelis and Raymond—about how best to reduce unemployment in Southland.

 - (b) Kohelis advises the president to decrease personal income taxes.
 - (i) How would such a decrease in taxes affect aggregate demand? Explain.
 - (ii) Using a correctly labeled graph of the short-run Phillips curve, show the effect of the decrease in taxes. Label the initial equilibrium from part (a) as point A, and the new equilibrium resulting from the decrease in taxes as point B.
 - (c) Raymond advises the president to take no policy action.
 - (i) What will happen to the short-run aggregate supply curve in the long run? Explain.
 - (ii) Using a new correctly labeled graph of the short-run Phillips curve, show the effect of the change in the short-run aggregate supply you identified in part (c)(i).

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2. In Country Z, the required reserve ratio is 10 percent. Assume that the central bank sells \$50 million in government securities on the open market.
- (a) Calculate each of the following.
- (i) The total change in reserves in the banking system
(ii) The maximum possible change in the money supply
- (b) Using a correctly labeled graph of the money market, show the impact of the central bank's bond sale on the nominal interest rate.
- (c) What is the impact of the central bank's bond sale on the equilibrium price level in the short run?
- (d) As a result of the price level change in part (c), are people with fixed incomes better off, worse off, or unaffected? Explain.
3. Assume that the real interest rates in both Canada and India have been 5 percent. Now the real interest rate in India increases to 8 percent.
- (a) Using a correctly labeled graph of the foreign exchange market for the Canadian dollar, show the effect of the higher real interest rate in India on each of the following.
- (i) Supply of the Canadian dollar. Explain.
(ii) The value of the Canadian dollar, assuming flexible exchange rates
- (b) Using a correctly labeled graph of the loanable funds market in Canada, show how the increase in the real interest rate in India affects the real interest rate in Canada.

STOP

END OF EXAM