

## **2019 AP® MACROECONOMICS FREE-RESPONSE QUESTIONS**

2. Assume the expected inflation rate in a country is 3%, the current unemployment rate is 6%, and the natural rate of unemployment is 4%.
- Draw a correctly labeled graph of the short-run and long-run Phillips curves. Label the current short-run equilibrium as point X and plot the numerical values above on the graph.
  - Is the actual inflation rate greater than, less than, or equal to the expected inflation rate of 3%?
  - Assume loans were made taking into account the expected inflation rate of 3%. Will lenders be better off or worse off after they realize the actual inflation rate identified in part (b)? Explain.
  - Based on the relationship between the actual and the expected inflation rates identified in part (a), what will happen to the natural rate of unemployment in the long run?
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3. Assume that households in Econland increase their savings for retirement.
- Using a correctly labeled graph of the loanable funds market, show how the increase in savings will affect the equilibrium real interest rate.
  - Based solely on the real interest rate change identified in part (a), what will happen to Econland's purchases of foreign assets? Explain.
  - Consider the foreign exchange market for Econland's currency.
    - Based on your answer to part (b), what will happen to the international value of Econland's currency?
    - Based on your answer to part c (i), would Econland's central bank buy or sell its currency in the foreign exchange market to offset the change in the value of its currency?

**STOP**

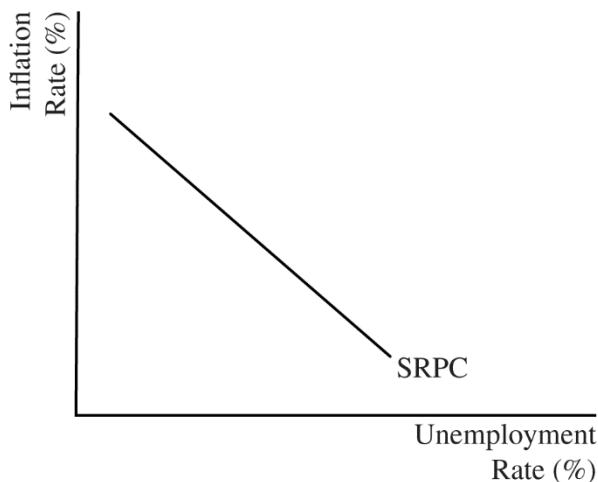
**END OF EXAM**

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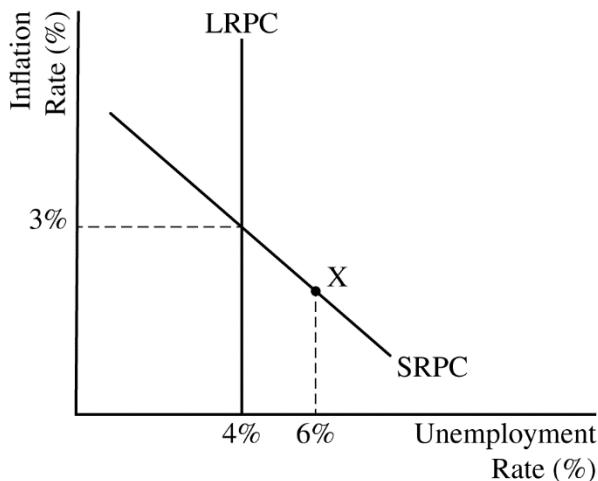
**Question 2**

**5 Points (2 + 1 + 1 + 1)**

**(a) 2 points**



- One point is earned for drawing a correctly labeled graph showing the short-run Phillips curve (SRPC).



- One point is earned for drawing the long-run Phillips curve (LRPC) showing the short-run equilibrium, labeled as point X, on the SRPC to the right of the LRPC, and for plotting the numbers in the correct places on the graph.

**(b) 1 point**

- One point is earned for stating that the actual inflation rate is less than the expected inflation rate.

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**Question 2 (continued)**

**(c) 1 point**

- One point is earned for stating that lenders will be better off and for explaining the real value of the loans that will be repaid will be higher than expected **OR** for explaining the relationship between the nominal and the real interest rates using the Fisher equation.

**(d) 1 point**

- One point is earned for stating that the natural rate of unemployment will not change in the long run.