

## 2005 AP<sup>®</sup> MACROECONOMICS FREE-RESPONSE QUESTIONS

3. Assume that the table below shows the unemployment and inflation data in Country X as a result of a shift in aggregate demand.

Period	Unemployment Rate	Inflation Rate
Last year	2%	8%
This year	5%	4%

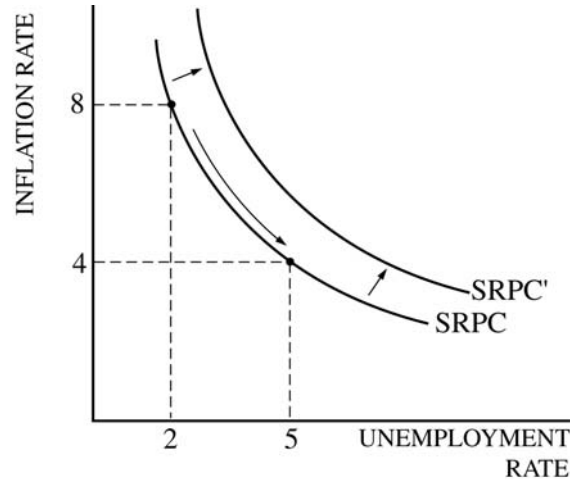
- (a) Draw a correctly labeled graph of a short-run Phillips curve for Country X, showing the actual unemployment and inflation rates for both years. Label the Phillips curve as SRPC.
- (b) Now assume that the short-run aggregate supply curve has shifted to the left.
- (i) Identify one factor that could cause the aggregate supply curve to shift to the left.
- (ii) On the graph, show how this shift would affect the short-run Phillips curve.
- (c) Assume that the natural rate of unemployment in Country X is 5 percent. Draw a correctly labeled graph of the long-run Phillips curve and label it as LRPC.
- (d) What is the relationship between the unemployment rate and the inflation rate in the long run?

**END OF EXAM**

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2005 SCORING GUIDELINES**

**Question 3**

**6 points** (2 + 2 + 1 + 1)



- (a) 2 points:
- One point is earned for correctly labeling axes.
  - One point is earned for correctly plotting actual data points and showing a downward-sloping short-run Phillips curve.
- (b) 2 points:
- One point is earned for identifying a correct factor, such as increase in input prices, production costs, expected inflation, or business taxes.
  - One point is earned for showing an outward shift of the short-run Phillips curve from part (a).
- (c) 1 point:
- One point is earned for graphing the long-run Phillips curve, vertical at the unemployment rate of 5 percent.
- (d) 1 point:
- One point is earned for stating that there is no trade-off between inflation and unemployment in the long run.