2019



# **AP**<sup>°</sup> **Macroeconomics**

# Sample Student Responses and Scoring Commentary Set 1

# Inside:

**Free Response Question 2** 

- **☑** Scoring Guideline
- ☑ Student Samples
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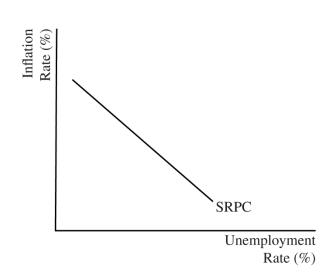
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## AP<sup>®</sup> MACROECONOMICS 2019 SCORING GUIDELINES

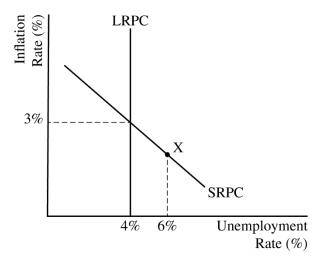
#### **Question 2**

#### 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.

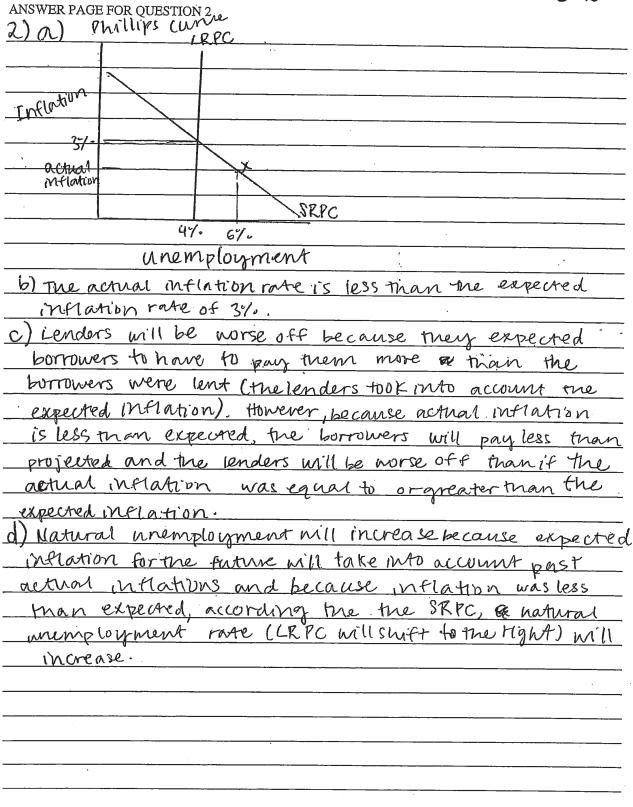
#### (d) 1 point

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

ANSWER PAGE FOR QUESTION 2 а. 31. Infr SRPC 3 4% 61. UE nflation he action rate is less than the expected writer inflation This is ra: Ί. because 01 unemployment is arthan hiel 7 notura a e 6 Unemologin and a At Unen gne tion 10 TA Verse have and an rela on ship 64.4 ofp better enders he ove the TOP ation being 4 th te ower expected ĩS because 90 his be paid N back in Money tha More Ugla 55 than initial Ona (V) ati Unemp ra M. boment remain Wil the same and CUTTER Unemploym Will decrease back e netura torate

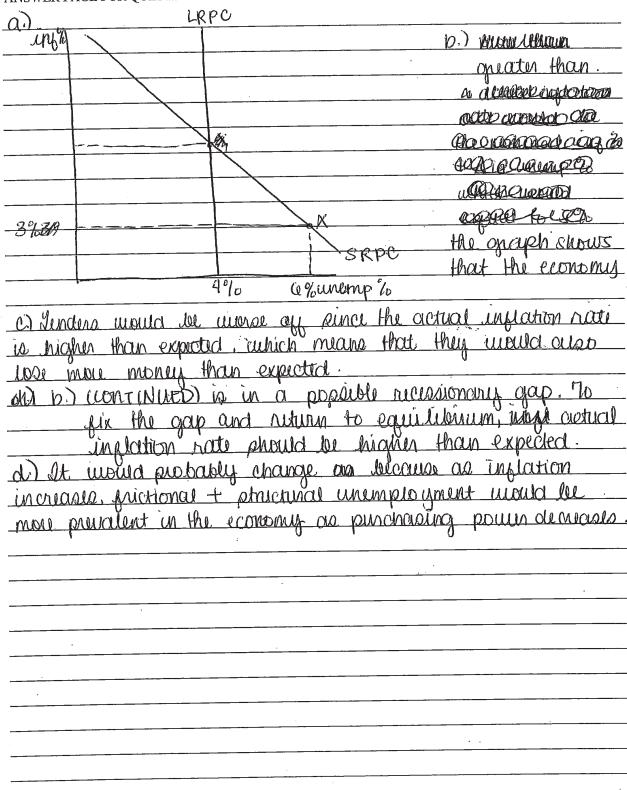
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2A



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ANSWER PAGE FOR QUESTION 2



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### AP<sup>®</sup> MACROECONOMICS 2019 SCORING COMMENTARY

#### **Question 2**

Note: Student samples are quoted verbatim and may contain spelling and grammatical errors.

#### Overview

The question examined students' understanding of the short-run and long-run Phillips curve models, as well as their understanding of the relationship between real and nominal values. In the prompt students were asked to assume that the expected inflation rate was 3%, the current unemployment rate was 6%, and that the natural rate of unemploymment was 4%. In part (a) students were asked to draw a correctly labeled graph of the short-run Phillips curve (SRPC) and the long-run Phillips curve (LRPC). Furthermore, students were asked to use the information from the prompt to label a point X to indicate the short-run equilibrium in the economy. Part (b) asked students to identify whether the actual inflation rate of 3%, part (c) asked students to explain whether lenders would be better or worse off after realizing the actual inflation rate that had been identified in part (b). Finally, part (d) asked students to consider the relationship between actual and expected inflation by determining what would happen to the natural rate of unemployment given the state of the economy depicted in part (a).

#### Sample: 2A Score: 5

The student answers all parts of the question correctly and earned all 5 points.

#### Sample: 2B Score: 3

The student did not earn 1 point in part (c) for incorrectly stating that lenders will be worse off when the actual inflation rate is less than the expected inflation rate. The student did not earn 1 point in part (d) for stating that the natural rate of unemployment will increase.

#### Sample: 2C Score: 1

The student earned 1 point in part (a) for drawing a correctly labeled graph showing the SRPC.