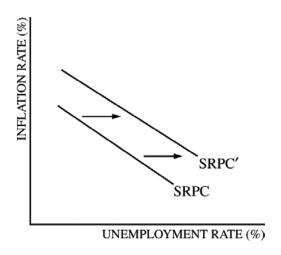
AP® MACROECONOMICS 2013 SCORING GUIDELINES

Question 3

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



- (a) 1 point:
 - One point is earned for drawing a correctly labeled graph of the short-run Phillips curve.
- (b) 1 point:
 - One point is earned for shifting the short-run Phillips curve to the right.
- (c) 1 point:
 - One point is earned for stating that the increase in expected inflation does not affect the longrun Phillips curve.
- (d) 2 points:
 - One point is earned for stating that the nominal interest rate will increase.
 - One point is earned for stating that the real interest rate will remain unchanged.
- (e) 1 point:
 - One point is earned for calculating the real interest rate: 8%-3%=5%.

ANSWER P.	AGE FOR QUESTION 3 Phillips Curve
Inflation	1 \
Introdu	
Barc	
	SRPC2(b)
200000000000000000000000000000000000000	SRPC.
ě	Description of the second of t
Marine Company	Unemployment Rate
3	
C) Then	e is no effect to the orlong run Phillips Curve due expected increase in inflation.
to the	expected increase in inflation.
dil	ominal interest rates will increase our due to
in	crease of expected inflation.
_	. •
	leal interest rates will not change due to the increase the expected inflation rate,
Ot	The expected influentione,
e) Non	11nal = 870
Inflati	on 2 3%
Ren	y Interest Rate = Nominal Interest Rate - Inflation Rate
	il Interest Rate = 8 % - 3%
10	1 + 1 0 507
Keo	1 Interest Rate = 5%

ANSWER PAGE FOR QUESTION 3

Α,	PHILLIPS CLIRVE
INFLATION	B. expect less linemployment.
	3
	~
	SRPC
	UNEMPLOYMENT
C. N	O EFFECT
D. i.	increase
î	decrease
E. 85	20 - 320 = 520 (REAL 1)
	·
	,
	-

a.) inflation LPPC
ac
B R
SPPC
water unemployment tate
b.)
c) There is no effect on the LPPC.
or the officer of the
d.) Nominal interest rates will decrease.
real inferest rates will also decrease.
e-) - nominal alla
nominal - inflation = peal.
8 - 4 = 4
4% = ral 1.P.
46-1011

AP® MACROECONOMICS 2013 SCORING COMMENTARY

Question 3

Overview

Part (a) examined the students' ability to draw a short run Phillips curve diagram. Part (b) tested the students' ability to show the effect of an increase in inflationary expectations on their diagram from part (a). Part (c) assessed the students understanding of the effect of an increase in inflationary expectations on the long run Phillips curve. Part (d) tested students' ability to identify the effect of this increase in inflationary expectations on the nominal interest rate and the real interest rate. Part (e) tested students' ability to calculate the real interest rate from the data given.

Sample: 3A Score: 6

The student answers all parts of the question correctly and so earned 6 points.

Sample: 3B Score: 4

The student lost 1 point in part (b) for failing to shift the short-run Phillips curve to the right. In part (d)(ii), the student lost 1 point for incorrectly concluding that the real interest rate will decrease.

Sample: 3C Score: 2

The student earned 1 point in part (a) for drawing a correctly labeled graph of a short-run Phillips curve. The student earned 1 point in part (c) for concluding that there is no effect on the long-run Phillips curve.