# **CHAPTER 1: Introduction to Macroeconomics**

# MULTIPLE CHOICE

1.	A central topic of study in macroeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in microeconomics is, while a central topic of study in micr
	ANS: B DIF: Easy REF: 1.1 TOP: I.  MSC: Remembering
2.	The three main variables we discuss in the short run are:  a. economic fluctuations, interest rates, and unemployment.  b. economic fluctuations, inflation, and money.  c. economic fluctuations, inflation, and unemployment.  d. interest rates, money supply, and taxes.  e. economic fluctuations, interest rates, and money.
	ANS: C DIF: Easy REF: 1.1 TOP: I.  MSC: Remembering
3.	Macroeconomics is to microeconomics what is to  a. cosmology; particle physics d. chemistry; organic chemistry  b. particle physics; cosmology e. biology; zoology  c. physics; biology
	ANS: A DIF: Easy REF: 1.1 TOP: I. MSC: Applying
4.	Which of the following does macroeconomics endeavor to answer?  Why is the typical person in the United States today more than 10 times richer than the typical person a century ago?  Why has the unemployment rate been nearly twice as high in Europe as in the United States in recent years?  What determines the rate of inflation? What determines how rapidly the overall price level in an economy increases?  It is only  Material in the United States in Europe as in the United States in recent years?  What determines the rate of inflation? What determines how rapidly the overall price level in an economy increases?  It is only  Material in Europe as in the United States in Europe as in the United States in recent years?  What determines the rate of inflation? What determines how rapidly the overall price level in an economy increases?  It is only  Material in Europe as in the United States in Europe as in the United States in recent years?
	ANS: B DIF: Moderate REF: 1.1 TOP: I.  MSC: Applying
5.	Which of the following does macroeconomics NOT endeavor to answer?  Why is the typical person in the United States today more than 10 times richer than the typical person a century ago?  Why has the unemployment rate been nearly twice as high in Europe as in the United States in

iii. Why has the price of orange juice risen sharply?

recent years?

a. ii and iii d. i, ii, and iii *i* only *iii* only c. ii only ANS: E DIF: Moderate REF: 1.1 TOP: I. MSC: Applying 6. Which of the following does macroeconomics endeavor to answer? What role does the government play in recessions, booms, and determining the rate of inflation? ii. What causes an increase in the price of Exxon stock? iii. How does a dairy farmer react to rising milk prices? a. *i* only d. i, ii, and iii e. ii and iii b. *ii* only c. iii only ANS: A TOP: II. DIF: Moderate REF: 1.2 MSC: Applying 7. Which of the following does macroeconomics endeavor to answer? How does a dairy farmer react to rising wheat prices? What causes an increase in the price of Apple stock? iii. What are potential causes of financial crises? a. *i* only d. i, ii, and iii b. ii only e. ii and iii iii only ANS: C DIF: Moderate REF: 1.1 TOP: II. MSC: Applying 8. Which of the following does macroeconomics endeavor to answer? What role does the government play in recessions, booms, and determining the rate of inflation? ii. What caused the currency crises in Mexico in the mid-1990s and in many Asian economies at the end of the 1990s? iii. How does a dairy farmer react to rising milk prices? a. iii only d. i, ii, and iii b. *ii* only e. i and iii c. i and ii TOP: II. ANS: C DIF: Moderate REF: 1.1 MSC: Applying 9. Which of the following lists the four steps we use to study macroeconomic behavior in the correct order? (1) document the facts; (2) develop a model; (3) compare the predictions of the model to the original facts; and (4) use the model to make other predictions that may eventually be

- - tested
  - b. (1) document the facts; (2) use the model to make other predictions that may eventually be tested; (3) compare the predictions of the model to the original facts; and (4) develop a model
  - (1) compare the predictions of the model to the original facts; (2) develop a model; (3) document the facts; and (4) use the model to make other predictions that may eventually be tested

					document t ) use the mo					
	e.	None of	these ar	nswers	is correct.					
		S: A C: Reme		DIF:	Easy	REF:	1.2	TOP:	II.	
10.	a. b. c. d. e.	Shocks; p Endogend Endogend Exogend Paramete	the mode paramete ous varia ous variat us variat	el. ers ables; e ables; s oles; en m varia	dogenous va ables	ariables ariables			_	are the
		S: D C: Reme		DIF:	Easy	REF:	1.2	TOP:	II.	
11.	i. ii. iii. ] a. b.	How doe	changes s money investm	in gove supply	etions should ernment poly influence i ect economi	icies chang nflation?	-			
		S: B C: Apply	ring	DIF:	Moderate	REF:	1.2	TOP:	II.	
12.	i. ii. iii. a. b.	How doe	changes s money ne relatio	in gove supply	etions should ernment poly influence i petween infl	icies chang nflation? ation and u d.	ge the labor	market?		
		S: C C: Apply	ring	DIF:	Moderate	REF:	1.2	TOP:	II.	
13.	<ul><li>i.</li><li>ii.</li><li>iii.</li><li>a.</li><li>b.</li><li>c.</li></ul>	Why, in How much Why does i and ii ii only iii only	general, ch less u	do Am nemplo ted Sta	ericans have oyment is the tes have a lo	e higher indered during ower unem d. e.	comes than an econom ployment r i, ii, and i i and iii	Africans? ic expansio ate than Eu ii	rope?	
		S: D C: Apply	ring	DIF:	Moderate	REF:	1.2	TOP:	11.	
14.		nsider the or supply		_	el of the lab	or market:				

	Labor demand: $L^d = 1$ The endogenous variety					
	a. $\overline{f}$ and $\overline{a}$ . b. $\overline{a}$ and the equilib c. $\overline{f}$ and the equilibility d. the equilibrium q e. $\overline{a}$ and the equilibrium	orium wage, и uantity of lab	or, $L^*$ , and wag	e, w*.		
	ANS: D MSC: Applying	DIF: Diffic	cult REF:	1.2	TOP: II.	
15.	Consider the following Labor supply: $L^3 = \overline{L}^3$ Labor demand: $L^{d} = \overline{L}^3$ The values of the equation $L^{d} = \overline{L}^3$	$\overline{t} \times w + \overline{\ell}$ $\overline{f} - w$		and wage, w, a	are:	
	a. $L^* = \frac{\overline{a} \ \overline{f} + \overline{\ell}}{1 + \overline{a}}; \ w$ b. $L^* = (\overline{a} \ \overline{f} + \overline{\ell}) / (\overline{\ell})$ c. $L^* = (\overline{a} \ \overline{f} + \overline{\ell}) / (\overline{\ell})$ d. $L^* = (\overline{a} \ \overline{f} + \overline{\ell}) / (\overline{\ell})$ e. $L^* = \frac{\overline{a} \ \overline{f} + \overline{\ell}}{\overline{\ell} + \overline{a}}; \ w$	$(\overline{\ell} + \overline{\alpha}); w^* = (\overline{\ell} + \overline{\alpha}); w^* = (\overline{\ell} - \overline{\alpha}); w^* = (\overline{\ell} -$	$(\bar{f} - \bar{\ell})/(\bar{\ell} - \bar{a})$ $(\bar{f} + \bar{\ell})/(\bar{\ell} + \bar{a})$			
	ANS: A MSC: Applying	DIF: Diffic	cult REF:	1.2	TOP: II.	
16.	Consider the following Labor supply: $L^5 = 1$ Labor demand: $L^d = 1$ The value of the equivalent $L^* = 4^{4/5}$ ; $w^* = 1$ b. $L^* = 1$ ; $w^* = 1$ c. $L^* = 1$ 6; $w^* = 1$	+ w 11 – w librium quant 1/5.	ity of labor, $L$ , $a$	$L^* = 6; w^*$		
	ANS: C MSC: Applying	DIF: Diffic	cult REF:	1.2	TOP: II.	
17.	Income per person be 2012. a. \$2,500; rose; \$35 b. \$2,800; rose; \$58 c. \$2,800; rose; \$10	5,000 3,000	d.	\$44,000; fell; \$40,000; fell;	; \$3,500	in
	ANS: B MSC: Remembering	•	REF:	1.3	TOP: III.A.	
18.	Actual gross domesti a. rarely not b. always	c product (GE	d.	rarely	tial GDP.	

	c. always not					
	ANS: D DIF: MSC: Understanding	Easy	REF:	1.3	TOP:	III.A.   III.B.
19.	When we look at the  a. short; causes of econom b. long; causes of econom c. short; determinants of ed. long; causes of inflation e. long; money supply	nic fluctuations ic fluctuations economic growt		ned with the		-
	ANS: A DIF: MSC: Understanding	Easy	REF:	1.3	TOP:	III.A.   III.B.
20.	When we look at the  a. long; the money supply b. long; the causes of econ c. long; the causes of econ d. long; the causes of infla e. long; unemployment	nomic fluctuation		ned with		
	ANS: C DIF: MSC: Understanding	Easy	REF:	1.3	TOP:	III.A.
21.	The short run is concerned a. inflation; unemployment b. the causes of economic c. the causes of economic d. the determinants of economic d. the causes of economic d.	nt fluctuations; in fluctuations; th nomic growth;	flation e deterr the caus	minants of econ	omic g	rowth
	ANS: C DIF: MSC: Understanding	Easy	REF:	1.3	TOP:	III.B.
TRUE	E/FALSE					
1.	Macroeconomics is the stud	ly of an individ	ual marl	ket.		
	ANS: F DIF: MSC: Remembering NOT: It is the study of the	Easy overall perform	REF:		TOP:	I.
2.	These four steps, in the foll (1) document the facts; (2) develop a model; (3) compare the predictions (4) use the model to make of	of the model to	the ori	ginal facts; and	l	
	ANS: T DIF: MSC: Applying	Easy	REF:	1.2	TOP:	II.
3.	These four steps, in the foll (1) document the facts;	owing order, are	e used to	o study macroe	conomi	ic behavior:

	<ul><li>(2) use the model</li><li>(3) compare the pr</li><li>(4) develop a mod</li></ul>	redictions					l;
	ANS: F MSC: Applying	DIF:	Easy	REF:	1.2	TOP:	П.
	NOT: They are (1						e the predictions of the ons that eventually may b
4.	A main concern of	f long-run	macroeconon	nics is the	e causes	of economic g	growth.
	ANS: T MSC: Applying	DIF:	Easy	REF:	1.3	TOP:	III.A.
5.	A main concern of	f long-run	macroeconon	nics is the	e causes	of economic f	luctuations.
	ANS: F		Easy	REF:		TOP:	
	MSC: Understand	ding		NOT:	We are	concerned wi	th economic growth.
6.	A main concern of fix them.	f short-run	macroeconor	mics is th	e causes	of economic	fluctuations and how to
	ANS: T MSC: Applying	DIF:	Moderate	REF:	1.3	TOP:	III.B.
7.	A main concern of	f short-run	macroecono	mics is th	e causes	of economic	growth.
	ANS: F MSC: Understand NOT: We are cor	ding	Easy th the causes	REF:		TOP:	III.B.
8.	An economic mod	lel is an ex	act replica of	the econ	omy.		
	ANS: F	DIF:	Moderate	REF:	1.2	TOP:	II.
	MSC: Analyzing NOT: It is a very functions.	simplified	l version of th	e econon	ny that gi	ives us insight	t into how the economy
9.	An endogenous va	ariable is c	often called a	paramete	r.		
	ANS: F MSC: Understand NOT: It is a varia	_	Moderate predicted by	REF:		TOP:	II.
10.	An exogenous var	riable is on	e that is taker	n as giver	n (what th	ne text refers t	to as parameters).
	ANS: T MSC: Remember	DIF:	Easy	REF:	1.2	TOP:	II.

1. What are at least four of the main concerns of the study of macroeconomics?

## ANS:

Here are a handful of options:

- (a) Why does the average person today have 10 times more income than the typical person 100 years ago?
- (b) What determines the rate of inflation, and how do we control it?
- (c) How can we minimize the number of people unemployed?
- (d) What role, if any, does the government and/or central bank have in promoting economic well-being?
- (e) Why do unemployment rates differ across countries?
- (f) Why are some countries richer than others, and how can we promote development in lower-income countries?
- (g) What are the causes, and fixes, for economic crises?

DIF: Moderate

REF: 1.1

TOP: I.

MSC: Understanding

2. What are the steps macroeconomists use to analyze the economy?

### ANS:

- (a) Document the facts;
- (b) Develop a framework for analysis (a model);
- (c) Test the model using empirical analysis or some other comparable analysis and compare to the observed facts; and
- (d) Use the model to make other predictions that may eventually be tested

DIF: Easy

REF: 1.2

TOP: II.

MSC: Remembering

3. Describe the differences between the short run and the long run.

### ANS:

In the short run, we are concerned with the causes of economic fluctuations, or the business cycle. In the long run, we are concerned with the determinants of economic growth. Thus, the long run is the trend of output, and the short run represents the fluctuations around the trend.

DIF: Moderate

**REF: 1.3** 

TOP: III.A. | III.B. MSC: Understanding

4. Consider the following model of the labor market:

Labor Supply:  $L^3 = (\overline{a}w + \overline{\ell})$ Labor Demand:  $L^d = \overline{f} - w$ .

- (a) Identify the model's parameters.
- (b) Identify the endogenous variables.
- (c) Solve the model.
- (d) What must the relationship between  $\bar{f}$  and  $\bar{t}$  be?
- (e) If the supply and demand for labor were given as

$$L^s = 2w + 2$$

and

$$L^d = 3 - 3w$$

what are the equilibrium wage and labor force?

ANS:

(a) Using the notation in the text, the parameters are  $\overline{a}$ ,  $\overline{\ell}$ , and  $\overline{f}$ .

(b) They are the wage, w, and the labor in the market, L.

(c) Setting supply equal to demand, we get

$$(\overline{a}w + \overline{\ell}) = \overline{f} - w.$$

Solving this for w\* and L\*, we get

$$L^* = \frac{\overline{\alpha} \ \overline{f} + \overline{\ell}}{1 + \overline{\alpha}}; \ w^* = (\overline{f} - \overline{\ell})/(1 + \overline{\alpha}).$$

(d) To ensure the wage is positive, it must be that  $\overline{f} > \overline{\ell}$ . (e) Using the above equation we get  $w^* = 1/5$  and  $L^* = 12/5$ .

DIF: Difficult TOP: II. REF: 1.2 MSC: Applying