MULTIPLE CHOICE

1.	Who led the team that created the original National Income and Product Accounts in the 1930s? a. John M. Keynes d. Simon Kuznets b. Paul A. Samuelson e. Milton Friedman c. William D. Nordhaus
	ANS: D DIF: Easy REF: 2.1 TOP: I. MSC: Remembering
2.	Which measure of overall economic activity was not available in the 1930s? a. Stock prices d. Steel production b. GDP e. Gold prices c. Industrial production ANS: B DIF: Easy REF: 2.1 TOP: I. MSC: Understanding
3.	 The National Income and Product Accounts provides a system for: a. aggregating the production of all goods and services into a single measure of economic activity b. aggregating the production of all goods into a single measure of economic activity c. aggregating the production of all services into a single measure of economic activity d. aggregating the production of most goods and services into a single measure of economic activity e. aggregating the production of all goods and services into two measures of economic activity
	ANS: A DIF: Easy REF: 2.1 TOP: I. MSC: Understanding
4.	In 2012, U.S. national output was equal to about: a. \$15.7 billion b. \$15.7 trillion c. \$50,000 ANS: B DIF: Easy REF: 2.2 TOP: II. MSC: Remembering
5.	In 2012, U.S. national output per person was equal to about: a. \$15.7 billion d. \$12,000 b. \$43,000 e. \$80,000 c. \$50,000
	ANS: C DIF: Easy REF: 2.2 TOP: II. MSC: Remembering
6.	The National Income and Product Accounts allows us to relate to to to a. household income; government income; firm income b. total output; total spending; inflation c. total output; inflation; total income d. household income; household expenditure; total output

	ANS: E MSC: Applying	DIF:	Easy	REF:	2.2	TOP:	II.A.
7.	The National Income a. Expenditure = Pr b. Production = Exp c. Production = Exp	oductio enditur	n + Income e – Income	d.	Expenditure =	Produc Expend	ction – Income iture = Income
	ANS: E MSC: Applying	DIF:	Easy	REF:	2.2	TOP:	II.A.
8.	The difference betwee a. normal profits are economic profits competitive price b. economic profits normal profits are prices	e earnin are the es are ear	ngs based on the above-normal nings based on	e norma returns the nor	I competitive r associated with mal competitiv	eturn to prices e return	that exceed
	c. normal profits are economic profits monopolistic price	are the	above-normal	returns	associated with	prices	that exceed
	d. economic profits normal profits are pricese. None of these and	e the ab	oove-normal ret		•		one's own labor; at exceed competitive
	ANS: A MSC: Understanding	DIF:	Medium	REF:	2.2	TOP:	II.A.
9.	Goods that are produ a. inventory b. output adjustmen c. capital depreciati ANS: A	ıt	different year Medium		a loss net national p		II.A.
10.	MSC: Remembering The statistic used by a. the unemployment b. GDP c. the CPI	econon	nists to measure		the GDP defla	ator	
	ANS: B MSC: Understanding		Easy	REF:	2.2	TOP:	П.
11.	An economy'sa. consumption; incomplete the consumption; incomplete expenditure on good. investment; gove e. taxes; net exports	come oods ar oods; e rnment	nd services; outp expenditure on s	out			
	ANS: B MSC: Understanding		Easy	REF:	2.2	TOP:	II.A.

e. total output; total spending; total income

- 12. According to the expenditure approach, if Y is GDP, C is consumption, I is investment, G is government purchases, and NX is net exports, the national income identity can be written as:
 - a. Y=C+I+G

d. Y = (C + I + G)/NX

b. Y = C + I + G - NX

e. Y = C + I + G + NX

- c. Y+C=I+G+NX
- ANS: E
- DIF: Easy
- REF: 2.2
- TOP: II.B.

MSC: Remembering

- 13. According to the expenditure approach, if *Y* is GDP, *C* is consumption, *I* is investment, *G* is government purchases, and *NX* is net exports, the national income identity can be written as:
 - a. Y+C-G=I+NX

d. Y = (C + I + G)/NX

b. Y - C = I + G - NX

e. Y = C + I + G

- c. Y-C-G-I=NX
- ANS: C
- DIF: Easy
- REF: 2.2
- TOP: II.B.

MSC: Remembering

- 14. According to the expenditure approach, if *Y* is GDP, *C* is consumption, *I* is investment, *G* is government purchases, and *NX* is net exports, which of the following is the national income identity?
 - a. Y=C+I+G-NX

d. Y = (C + I + G)/NX

b. Y = C + I + G + NX

e. Y = C + I + G

- c. Y+C=I+G+NX
- ANS: B
- DIF: Easy
- REF: 2.2
- TOP: II.B.

MSC: Remembering

Refer to the following table when answering the next four questions.

Table 2.1: U.S. 2011–2012 Expenditures (\$ billions)

	2011	2012
Personal consumption expenditures	10,729	11,120
Goods	3,625	3,783
Services	7,104	7,337
Gross private domestic investment	1,855	2,062
Fixed investment	1,818	2,004
Change in private inventories	37	58
Net exports of goods and services	-568	-560
Exports	2,094	2,184
Imports	2,662	2,744
Government expenditures	3,060	3,063
Federal	1,222	1,214
State and local	1,838	1,849

- 15. Consider Table 2.1, which tabulates GDP for 2011–2012. Total GDP in 2011 is:
 - a. \$35,476 billion

d. \$10,092 billion

b. \$15,076 billion

e. \$6,382 billion

- c. \$15,644 billion
- ANS: B
- DIF: Medium
- REF: 2.2
- TOP: II.B.

MSC: Applying

16. Consider Table 2.1. which tabulates GDP for 2011–2012. Total GDP in 2012 is:

	a. \$36,858 billionb. \$13,991 billionc. \$16,245 billion				\$15,685 billi \$6,554 billio		
	ANS: D MSC: Applying	DIF:	Medium	REF:	2.2	TOP:	II.B.
17.	Consider Table 2.1, GDP in 2011 was al		abulates GDP	for 2011	–2012. The fe	deral go	vernment's share of total
	a. 19.5 percentb. 7.7 percentc. 12.2 percent				20.3 percent 8.1 percent		
	ANS: D MSC: Applying	DIF:	Medium	REF:	2.2	TOP:	II.B.
18.	and inves	stment's	abulates GDP share	over 2	011–2012.		nsumption as a share of GDF
	a. decreased; incre				increased; de		
	b. increased; increc. decreased; staye		me	e.	stayed the sa	me; stay	yed the same
	ANS: A MSC: Applying	DIF:	Difficult	REF:	2.2	TOP:	II.B.
19.	In 2012, household	expendi	ures account			of total (GDP.
	a. 50 percent				76 percent		
	b. 71 percentc. 45 percent			e.	13 percent		
	ANS: B MSC: Rememberin		Easy	REF:	2.2	TOP:	II.B.
20.	In 2012, investment	expendi	tures account	ted for ab	out	of total	GDP.
	a. 71 percent	1			10 percent		
	b3.5 percentc. 13 percent			e.	16 percent		
	ANS: C MSC: Rememberin		Easy	REF:	2.2	TOP:	II.B.
21	In 2012 governmen	t avnan	lituras aggaur	atad for al	sout.	of total	I CDD
21.	In 2012, government a. 5 percent	n expend	inules accour		13 percent	_ OI total	I UDF.
	b. –4 percent				20 percent		
	c. 66 percent				1		
	ANS: E MSC: Rememberin		Easy	REF:	2.2	TOP:	II.B.
22	In 2012, net exports	20001175	ad for about		of total CDD		
44.	a. –4 percent	account	ou 101 abbut.		100 percent	•	
	b. 13 percent				-14 percent		
	c. 20 percent				F		
	ANS: A MSC: Rememberin		Easy	REF:	2.2	TOP:	II.B.

23.	Net exports are also called a. capital outflows b. the trade balance c. the current account	1:	d. e.	foreign aid government tr	ansfers	
	ANS: A DIF MSC: Remembering	F: Easy R	REF:	2.2	TOP:	II.B.
24.	Using the expenditure appa. defense and nondefense b. only nondefense federal government ext. only state and local government ext. residential investment.	se federal, state, and ral government expenditures and tran overnment expenditures	d local enditur sfer pa ures	government ex res ayments	xpendit	tures
	ANS: A DIF MSC: Understanding	F: Medium R	REF:	2.2	TOP:	II.B.
25.	In 2012, government transa. one-third b. half c. 74 percent	sfer payments accou		for about three-fifths 100 percent	of	government spending.
	ANS: A DIF MSC: Applying	F: Medium R	REF:	2.2	TOP:	II.B.
26.	Using the expenditure appa. durable and nondurabb. durable and nondurabc. durable and nondurabd. durable and nondurabe. nondurable goods	le goods and service le goods le goods and taxes	es	nditures includ	e house	ehold purchases of:
	ANS: A DIF MSC: Understanding	F: Medium R	REF:	2.2	TOP:	II.B.
27.	Using the expenditure appa. household residential b. firm structures, equipc. fixed firm and househd. government and firm e. government defense a	expenditures ment, and inventorie old structures, equip equipment expendit	es pment ures	, and inventorion	es	
	ANS: C DIF MSC: Understanding	F: Medium R	REF:	2.2	TOP:	II.B.
28.	Which of the following is accounting? a. transfer payments b. taxes c. Social Security	/are NOT included i	d.	changes in sto None of these	ck pric	es
	ANS: E DIF MSC: Applying	F: Medium R	REF:	2.2	TOP:	II.B.

29.	Which of the following are NOT includeda. defense expendituresb. firm expenditures on equipmentc. residential expenditures		spenditure approach to national in household service expenditures All of these answers are correct	•
	ANS: E DIF: Medium MSC: Applying	REF:	2.2 TOP: II.B.	
30.	In 2012, the U.S. GDP was abouta. \$5 trillion; net exports b. \$22.5 billion; government expenditure c. \$10.5 trillion; investment d. \$13.6 billion; consumption e. \$15.7 trillion; consumption		was the largest share.	
	ANS: E DIF: Easy MSC: Remembering	REF:	2.2 TOP: II.B.	
31.	Which of the following is/are NOT include accounting?	led in the	expenditure approach to national	lincome
	a. softwareb. taxesc. defense expenditures		All of these answers are correct None of these answers are corre	
	ANS: B DIF: Medium MSC: Applying	REF:	2.2 TOP: II.B.	
32.	U.S. expenditure shares by households, firexcept during	rms, and	the government have been relativ	rely
	a. constant; the 1970sb. variable; the Great Depressionc. constant; World War II		constant; the Vietnam War variable; the 1990s	
	ANS: C DIF: Medium MSC: Understanding	REF:	2.2 TOP: II.C.	
33.	Since about, U.S. expenditure serilatively	shares by	households, firms, and the gover	nment have been
	 a. 1939; constant b. the Great Depression era; constant c. 1950; variable 		1950; constant 1929 until 1945; constant	
	ANS: D DIF: Medium MSC: Understanding	REF:	2.2 TOP: II.C.	
34.	According to the text, the gains in GDP's a. caused a rapid decline in inventories b. driven investment below 10 percent c. no impact on net exports d. been at a cost to net exports and gove e. also pushed up the government expen	rnment sj	pending	
	ANS: D DIF: Medium MSC: Understanding	REF:	2.2 TOP: II.C.	
35.	Prior to the late 1970s, the United States _		about as much as it	

exported; consumed d. invested; exported exported; imported imported; invested c. imported; consumed TOP: II.C. ANS: B DIF: Medium REF: 2.2 MSC: Understanding 36. According to the *income* approach to GDP, the largest percentage of GDP comes from: a. indirect business taxes d. depreciation of fixed capital e. None of these answers are correct. b. firm profits c. compensation to employees TOP: II.C. DIF: Easy REF: 2.2 MSC: Understanding Refer to the following table when answering the next three questions. Table 2.2: U.S. 2011–2012 Domestic Income (\$ billions) 2011 2012 Compensation of employees, paid 8,303 8,600 Wage and salary accruals 6,669 6,914 Supplements to wages and salaries 1,634 1,687 Taxes on production and imports 1,098 1,130 **Subsidies** 62 61 Net operating surplus 3,768 3,963 Private enterprises 3,997 3,794 Current surplus of government enterprises -27-34Depreciation of fixed capital 1,937 2,012 Private 1,587 1,648 Government 349 364 37. Consider Table 2.2, National Income Accounts for 2011 and 2012. From this data, total GDP in 2011 was about billion. d. \$15,044 a. \$16,606 b. \$14,008 e. \$15,645 c. \$32,969 TOP: II.C. ANS: D DIF: Medium REF: 2.2 MSC: Applying 38. Consider Table 2.2, National Income Accounts for 2011 and 2012. From this data, total GDP in 2012 was about billion. a. \$15,644 d. \$14,576 b. \$15,044 e. \$17,201 c. \$34,339 ANS: A DIF: Medium REF: 2.2 TOP: II.C. MSC: Applying 39. Consider Table 2.2, National Income Accounts for 2011 and 2012. From this data, total net domestic product in 2012 was about _____ billion. a. \$13,632 d. \$14,576 b. \$13,708 e. \$11,743 c. \$15,645

	ANS: A MSC: Applying	DIF:	Difficult	REF:	2.2	TOP:	II.C.
40.	Since about 1970, _a. labor's; rising b. labor's; the sam c. profits'; falling		_ income share	d.	has beenindirect busing the health sec	ness tax	,
	ANS: B MSC: Rememberin		Easy	REF:	2.2	TOP:	II.C.
41.	In the past 60 years a. is roughly two-t b. is exactly 50 per c. is roughly one-t	hirds rcent	bor's share of (d.	the United Stat is equal to ca has risen shar	pital's i	
	ANS: A MSC: Rememberin		Easy	REF:	2.2	TOP:	II.C.
42.	When the city of Lo associated a. GDP; costs b. revenues; costs c. taxes; benefits			d.	interest rates; prices; costs		rise, but it may be due to the
	ANS: A MSC: Analyzing	DIF:	Medium	REF:	2.2	TOP:	II.E.
43.	When a state builds improve(s). a. income; welfare b. GDP; taxes c. GDP; transfers		enitentiary,	d.	rise(s), but that GDP; welfare taxes; costs		ot imply that
	ANS: D MSC: Analyzing	DIF:	Medium	REF:	2.2	TOP:	II.E.
44.	Which of the follow a. You find \$10 or b. You purchase a c. The governmen d. You fix your ow e. None of these a	n the side used ste t builds vn sink.	ewalk. ereo from a frien a new highway	nd.	he current GDI	P ?	
	ANS: C MSC: Analyzing	DIF:	Medium	REF:	2.2	TOP:	II.E.
45.	Which of the follow a. A student buys b. You buy a used c. The local police d. The Pentagon b e. None of these a	another car from station uys gaso	year of tuition. n your parents. buys new squadoline.		nanges in the cu	arrent G	GDP?
	ANS: B	DIF:	Medium	REF:	2.2	TOP:	II.E.

MSC: Analyzing 46. By how much does the current GDP rise in the following scenario? A real estate agent sells a house for \$250,000 that the previous owners had purchased 10 years earlier for \$90,000. The real estate agent earns a commission of \$10,000. d. \$90,000 a. \$160,000 b. \$250,000 e. \$260,000 c. \$10,000 ANS: C DIF: Medium REF: 2.2 TOP: II.E. MSC: Analyzing 47. By how much does GDP change between 2010 and 2011 in the following scenario? In 2010, a rich woman has a chef and pays him \$50,000 to cook for her. In 2010, she marries the chef and he continues to cook. a. GDP rises by \$50,000. d. GDP rises by \$25,000. b. GDP is unchanged. e. Not enough information is given. c. GDP falls by \$50,000. ANS: C DIF: Medium REF: 2.2 TOP: II.E. MSC: Analyzing 48. Nominal GDP is the _____ of all goods and services produced in a period of time using _____ prices. a. value: 1945 d. value: current b. summation; current e. summation; base year c. value; a previous year's ANS: D DIF: Medium REF: 2.3 TOP: II.E. MSC: Understanding 49. If you own your own home, National Accounts uses ______ to measure the value of your home. a. the geometric mean of the highest and lowest priced house in your neighborhood b. the original purchase price c. an estimate price of your house based on current market conditions d. "rental equivalents" e. the value of your home to your insurance carrier ANS: D DIF: Medium REF: 2.2 TOP: II.E. MSC: Remembering 50. Real GDP is the ______ of all goods and services produced in a period of time using _____ prices. a. summation; current d. value; 1945 b. value; base year e. summation; base year c. value; 1970

51. Which of the following is NOT discussed in Jones and Klenow's alternative measure of economic welfare?

REF: 2.3

TOP: III.

a. inequality d. child mortality rates

DIF: Medium

b. leisure e. consumption share of GDP

c. life expectancy

MSC: Understanding

ANS: B

	ANS: D DIF: Easy REF: 2.3 MSC: Remembering	TOP:	III.A.
52.	Nominal GDP is given by, where the price level is the a. Nominal GDP = Price level × Real GDP; GDP deflator b. Nominal GDP = Price level ÷ Real GDP; GDP deflator c. Nominal GDP = Price level + Real GDP; CPI d. Nominal GDP = Price level - Real GDP; GDP deflator e. Nominal GDP = Price level × Real GDP; CPI		<u></u>
	ANS: A DIF: Easy REF: 2.3 MSC: Remembering	TOP:	III.
53.	Real GDP is given by, where the price level is the a. Real GDP = Nominal GDP × Price level; CPI b. Real GDP = Nominal GDP ÷ Price level; GDP deflator c. Real GDP = Nominal GDP + Price level; GDP deflator d. Real GDP = Nominal GDP - Price level; GDP deflator e. Real GDP = Nominal GDP ÷ Price level; CPI	·	
	ANS: B DIF: Medium REF: 2.3 MSC: Applying	TOP:	III.
54.	The price level can be derived as and is called the a. Price level = Nominal GDP ÷ Real GDP; CPI b. Price level = Nominal GDP × Real GDP; CPI c. Price level = Real GDP × Nominal GDP; GDP deflator d. Price level = Real GDP ÷ Nominal GDP; Paasche deflator e. Price level = Nominal GDP ÷ Real GDP; GDP deflator	·	
	ANS: E DIF: Medium REF: 2.3 MSC: Applying	TOP:	III.
55.	The percent change in the nominal GDP is given as: a. percent change in the price level + percent change in real GD b. percent change in the price level - percent change in real GD c. percent change in the price level × percent change in real GD d. percent change in the price level ÷ percent change in real GD e. price level × percent change in real GDP	P P	
	ANS: A DIF: Easy REF: 2.3 MSC: Remembering	TOP:	III.
56.	If the percent change in the price level is than the percea. smaller; nominal GDP; real GDP shrinks b. greater; nominal GDP; real GDP shrinks c. greater; real GDP; nominal GDP shrinks d. greater; real GDP; nominal GDP always stays the same e. Not enough information is given.	ent chan	ge in,
	ANS: B DIF: Medium REF: 2.3 MSC: Applying	TOP:	III.
57	Naminal gross domestic product is defined as:		

57. Nominal gross domestic product is defined as:

a. the value of all goods and services produced by an economy, within its borders, over a

- period of time, at base-year prices
- b. the value of all goods produced by an economy, within its borders, over a period of time, at current prices
- c. the value of all goods and services produced by an economy, within its borders, over a period of time, at current prices
- d. the value of all goods and services produced by an economy's citizens, regardless of where they live, over a period of time, at current prices
- e. the value of all goods and services produced by an economy's citizens, regardless of where they live, over a period of time, at base-year prices

ANS: C DIF: Medium REF: 2.3 TOP: III.

MSC: Understanding

58. Real gross domestic product is defined as:

- a. the value of all goods and services produced by an economy, within its borders, over a period of time, at base-year prices
- b. the value of all goods and services produced by an economy, within its borders, over a period of time, at current prices
- c. the value of all goods produced by an economy, within its borders, over a period of time, at current prices
- d. the value of all goods and services produced by an economy's citizens, regardless of where they live, over a period of time, at current prices
- e. the value of all goods and services produced by an economy's citizens, regardless of where they live, over a period of time, at base-year prices

ANS: A DIF: Medium REF: 2.3 TOP: III.

MSC: Understanding

Refer to the following table when answering the next seven questions. In this economy, only two goods are produced: video games and pistachios.

Table 2.3: National Income Accounting

	2017	2018
Quantity of pistachios	1,000	1,100
Quantity of video games	500	500
Price of pistachios	\$1.00	\$1.50
Price of video games	\$15.00	\$14.75

59. Consider Table 2.3. Using the Laspeyres index, the real GDP in 2017 is:

a. \$8,900 d. \$15,500

b. \$8,500 e. \$9,150

c. \$1,500

ANS: B DIF: Medium REF: 2.3 TOP: III.C.1.

MSC: Applying

60. Consider Table 2.3. Using the Laspeyres index, the real GDP in 2018 is:

a. \$9,025 d. \$9,150

b. \$8,500 e. \$8,475

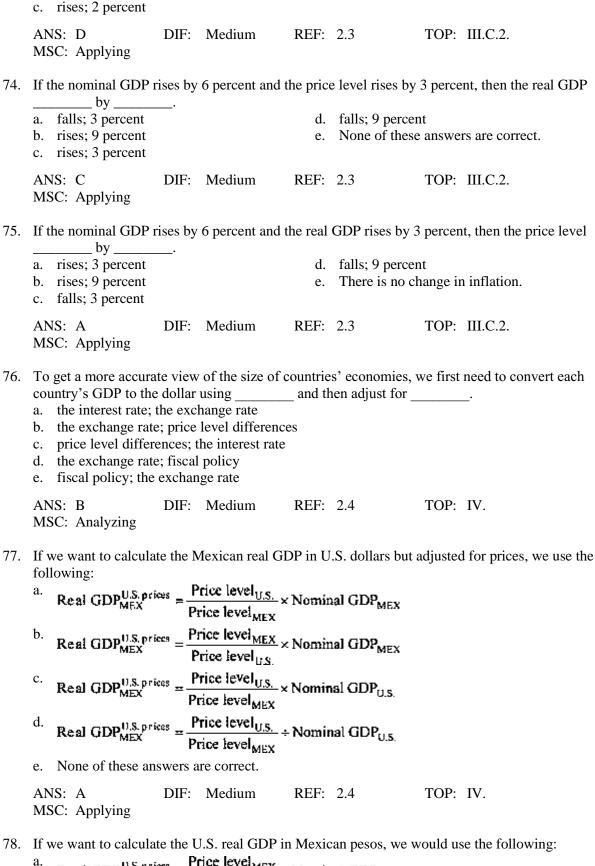
c. \$8,600

ANS: C DIF: Medium REF: 2.3 TOP: III.C.1.

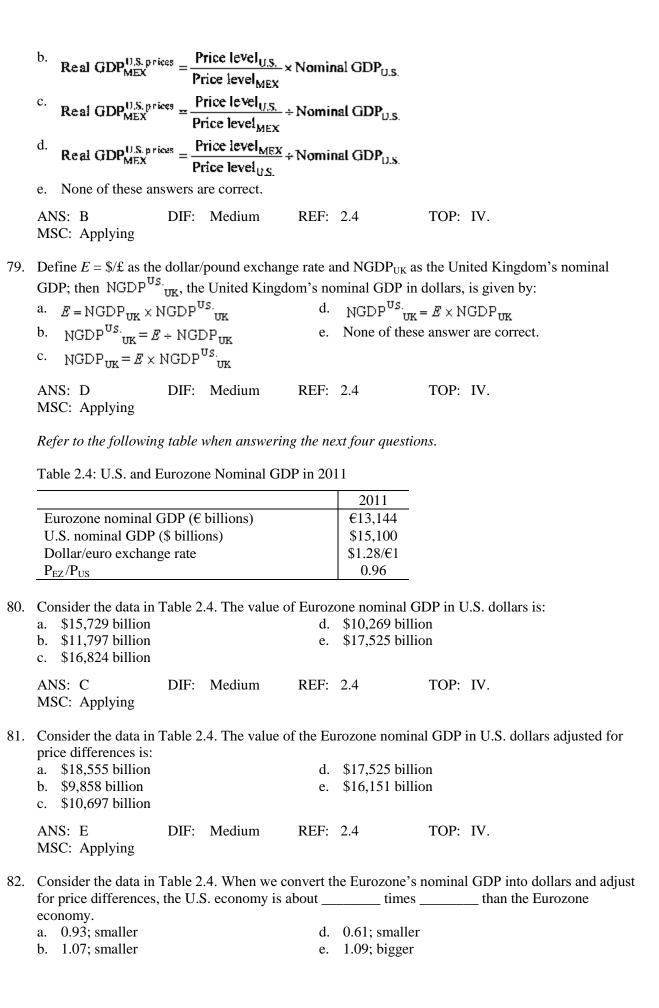
MSC: Applying

61.	Consider Table 2.3. a. \$9,150 b. \$8,500 c. \$8,600	Using tl	ne Paasche in	dex, the rod. d. e.	\$9,025	2018 is:		
	ANS: D MSC: Applying	DIF:	Medium	REF:	2.3	TOP:	III.C.1.	
62.	Consider Table 2.3. a. \$8,475 b. \$8,500 c. \$8,600	Using tl	ne Paasche in	dex, real (d. e.		7 is:		
	ANS: E MSC: Applying	DIF:	Medium	REF:	2.3	TOP:	III.C.1.	
63.	Consider Table 2.3. a. 0 percent b. 5 percent c. 1 percent ANS: B	Using the DIF:	ne Laspeyres Difficult		6 percent Not enoug	h informat	nd 2018 was ion is given. III.C.1.	about:
64.	MSC: Applying Consider Table 2.3. a. 6 percent b. 5 percent c. 0 percent	Using tl	ne Laspeyres		1 percent	-	l GDP was al	oout:
	ANS: D MSC: Applying	DIF:	Difficult	REF:	2.3	TOP:	III.C.1.	
65.	Consider Table 2.3. a. 5 percent b. 1 percent c. 6 percent	Using tl	ne Laspeyres		0 percent	-	minal GDP w	as about:
	ANS: C MSC: Applying	DIF:	Difficult	REF:	2.3	TOP:	III.C.1.	
66.	If we calculate the rea. Laspeyres; final b. Paasche; final c. Paasche; initial		using the	d.	ndex, we use chain-weig chain-weig	ghted; curr	ent	prices.
	ANS: B MSC: Rememberin		Easy	REF:	2.3	TOP:	III.C.1.	
67.	If we calculate the reinstead, we use the fa. Paasche; chain-b. Laspeyres; chair c. Laspeyres; Paasche	inal per weighted n-weigh	iod's prices, d	we are usi d.		index. Laspeyres		index. If,
	ANS: C MSC: Rememberin		Easy	REF:	2.3	TOP:	III.C.1.	

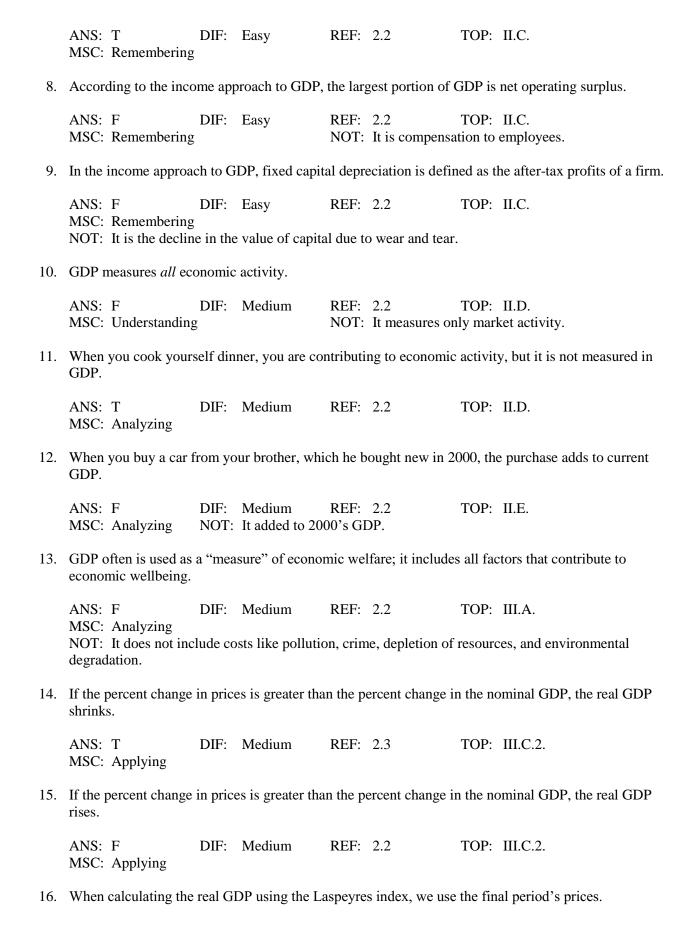
68.	a. ab. ac. ad. a	hain-weighted neconstant base year that constantly chan base year that consone of these ans	ear ging ba hanges hanges	ase year every five year every ten years	rs	ees from:			
	ANS: MSC:	B Remembering	DIF:	Easy	REF:	2.3	TOP:	III.C.3.	
69.	and the get 9 pa. 1. b. 9.	ose we calculate the Paasche indic percent. The cha 5 percent 75 percent 33 percent	es. Wit	th the Laspeyre	s index f real C	we get 12 perc GDP is: 9.5 percent			
	ANS: MSC:	E Applying	DIF:	Medium	REF:	2.3	TOP:	III.C.3.	
70.	a. av b. la	nal GDP means verage st year's e base year's	that the	e value of all go	oods an d. e.		easured	l in	_ prices.
	ANS: MSC:	D Remembering	DIF:	Easy	REF:	2.3	TOP:	III.C.2.	
71.	inflati a. pe b. pe c. pe d. pe	DP is nominal Con? ercent change in	NGDI NGDI NGDI RGDI	P + percent char P - percent char P × percent char P + percent char	nge in I nge in I nge in I nge in N	RGDP RGDP RGDP NGDP	ollowing	g can be used	I to calculate
		B Applying	DIF:	Medium	REF:	2.3	TOP:	III.C.2.	
72.	growtha. pe	DP is nominal On the real GD ercent change in	PP? NGDF NGDF NGDF P+pe	P – percent char P + percent char P × percent char ercent change in	nge in <i>I</i> nge in <i>I</i> nge in <i>I</i> n NGDI	o p p	llowing	g can be used	to calculate the
	ANS: MSC:	A Applying	DIF:	Medium	REF:	2.3	TOP:	III.C.2.	
73.	a. ris	nominal GDP r	-	3 percent and t	d.	falls; 2 percer	nt		
	b. fa	ills; 8 percent			e.	None of these	answe	rs are correct	t.



a. Real GDP_{MEX} =
$$\frac{\text{Price level}_{\text{MEX}}}{\text{Price level}_{\text{HS}}} \times \text{Nominal GDP}_{\text{U.S.}}$$



	c. 1.47; bigger	•						
	ANS: B MSC: Analyzin		Difficult	REF:	2.4	TOP:	IV.	
83.	Consider the dat NOT adjust for Eurozone econo a. 1.15; smalle b. 1.64; smalle	price differen omy. er		econom d.		ti		
	c. 1.15; bigger			C.	1.07, digger			
	ANS: D MSC: Applying		Difficult	REF:	2.4	TOP:	IV.	
TRUI	E/FALSE							
1.	The largest GDI	P expenditure	e share historic	ally has	been governm	ent exp	enditure.	
	ANS: F MSC: Understa	DIF:	Easy	REF: NOT:	2.2 It is consumpt	TOP: tion exp		
2.	In 2012, consum	nption expen	ditures account	ted for o	over 70 percent	of the t	total GDP.	
	ANS: T MSC: Rememb	DIF:	Easy	REF:	2.2	TOP:	I.	
3.	The value added intermediate god				e value of the f	firm's o	utput plus the	value of the
	ANS: F MSC: Understa NOT: It is equa produce that out	ıl to the valu	Medium e of the firm's	REF:		TOP:		goods used to
4.	According to the residential housi	_	e approach to C	GDP, ho	ousehold expend	ditures i	nclude purcha	ases of
	ANS: F MSC: Rememb NOT: Resident	ering	Medium	REF:		TOP:	II.B.	
5.	The largest share	e of househo	ld consumption	n expen	ditures is durat	ole good	ls.	
	ANS: F MSC: Rememb	DIF:	Medium	REF: NOT:	2.2 It is services.	TOP:	II.B.	
6.	According to the residential housi	•	e approach to C	GDP, in	vestment exper	nditures	include purch	ases of
	ANS: T MSC: Rememb		Medium	REF:	2.2	TOP:	II.B.	
7.	According to the	e income app	roach to GDP,	the larg	gest portion of	GDP is	compensation	to employees.



ANS: F DIF: Easy REF: 2.3 TOP: III.C.1. MSC: Remembering NOT: We use the initial period's prices.

17. When calculating the real GDP using the Paasche index, we use the final period's prices.

ANS: T DIF: Easy REF: 2.3 TOP: III.C.1.

MSC: Remembering

18. If the nominal GDP rises by 5 percent and the price level falls by 2 percent, the real GDP falls by 7 percent.

ANS: F DIF: Medium REF: 2.3 TOP: III.C.3.

MSC: Applying NOT: The real GDP rises by 7 percent.

19. If Croatia's price level is higher than the U.S. price level, Croatia's dollar-denominated GDP, calculated using price adjustments, will appear smaller than if simply calculated with the exchange rate.

ANS: T DIF: Medium REF: 2.4 TOP: IV.

MSC: Analyzing

20. To get an accurate view of how GDPs differ across countries, we simply need to convert all countries' GDPs into dollars using the prevailing exchange rate.

ANS: F DIF: Medium REF: 2.4 TOP: IV.

MSC: Understanding

NOT: We also need to account for price level differences.

21. If the percent change in real GDP is found to be 4 percent using the Laspeyres index and 3 percent using the Paasche index, the chain-weighted price index will give us a growth rate of 3.5 percent.

ANS: T DIF: Medium REF: 2.3 TOP: IV.

MSC: Applying NOT: 3.5 = (1/2)(4% + 3%).

SHORT ANSWER

1. What is real GDP? Why do we calculate real GDP? What are the shortcomings of real GDP?

ANS:

Real GDP is the value of all goods and services produced within an economy's borders over a period of time, at constant prices. It is calculated to measure overall economic activity and aggregate income. This is used as a measure of welfare, as higher income connotes higher consumption, health, leisure, etc. However, there are shortcomings. First, it misses unreported output (i.e., "under the table" output of goods and services), output that is done in day-to-day life (e.g., making yourself a sandwich), and it assumes more output leads to more welfare. However, "defensive" output (e.g., walls built to buffer noise pollution) increases GDP but may not improve welfare. Also it does not account for other costs of production (e.g., pollution, crime, resource depletion, etc.).

DIF: Medium REF: 2.2 TOP: II. MSC: Analyzing

2. Using the expenditure approach to national income accounting, when discussing government expenditures, do we include transfer payments? Why or why not?

ANS:

No. The expenditure approach concentrates on *purchases of goods and services* only. Transfer payments are income transfers and are not directly used to buy things. They are a form of negative tax and would therefore be a form of income for recipients of the transfer, enhancing disposable income: Disposable income = Income – (taxes – transfers).

DIF: Medium REF: 2.2 TOP: II.B. MSC: Analyzing

3. What are the components that make up the *income approach* to calculating GDP? What are the components that make up the *expenditure approach* to calculating GDP?

ANS:

- (a) Income approach: compensation to employees; indirect business taxes; net operating surplus of business (profits); and depreciation of fixed capital
- (b) Expenditure approach: household consumption; fixed private investment; net exports; and government expenditures

DIF: Easy REF: 2.2 TOP: II.B./II.C. MSC: Remembering

- 4. Identify which of the following goods are part of the current year's U.S. GDP and which are considered current year's U.S. GNP; explain. (Note: Ford is a company owned by U.S. citizens and Toyota is a company owned by Japanese citizens.)
 - (a) a Ford produced in Mexico
 - (b) a Toyota produced in California
 - (c) a meal you make for a dinner party
 - (d) an American-made vintage T-shirt from Led Zeppelin's 1971 North American tour you bought online last week

ANS:

- (a) It is part of U.S. GNP but not GDP as it is not produced within U.S. borders; it is part of Mexico's GDP.
- (b) It is part of U.S. GDP but not GNP as it is not produced by a U.S. firm; it is part of Japan's GNP.
- (c) Neither; it is "under the table" production and is not included in the national accounts.
- (d) Neither, as it is not current production. The T-shirt is not counted in current GDP; it was, however, part of 1971's GDP.

DIF: Medium REF: 2.2 TOP: II.E. MSC: Analyzing

5. Consider the data in the following table, which represents the total production of the country Tucommodatia. They produce only consumer goods.

	2017	2018	2019
Quantity of Y	100	105	103
Quantity of X	5	3	4
Price of Y	\$5	\$5	\$5
Price of X	\$100	\$105	\$110

- (a) Calculate real GDP for all three years, using 2017 as the base year.
- (b) Calculate the Consumer Price Index (CPI), using 2017 as the base year. Identify whether there was inflation from the previous year.

ANS:

Real GDP is a form of the Paasche index, so for each year we use the current year's prices and that year's quantities:

*2017: RGDP =
$$100 \times \$5 + 5 \times \$100 = \$1,000$$

*2018: RGDP =
$$105 \times \$5 + 3 \times \$100 = \$825$$

*2109: RGDP =
$$103 \times \$5 + 4 \times \$100 = \$915$$

The equation for the CPI is:

$$\text{CPI} = \frac{P_{x}^{C} \times Q_{x}^{B} + P_{y}^{C} \times Q_{y}^{B}}{P_{x}^{B} \times Q_{x}^{B} + P_{y}^{B} \times Q_{y}^{B}} \times 100$$

where the *C/B* superscript denotes the current/base year.

To make it easier, the denominator is equal to \$1,000.

*2017: Since the base and current year are the same: $CPI_{2017} = 100$;

*2018: $825/1000 \times 100 = 82.5$, prices fell 17.5 percent from 2017 to 2018;

*2019: $915/1000 \times 100 = 91.5$, prices are 8.5 percent lower in 2019 than in 2017 but are about 11 percent higher than in 2018.

DIF: Difficult REF: 2.3 TOP: III. MSC: Analyzing

6. You are a staff economist for your local bank and the bank manager claims that in 2012 the Chinese economy was bigger than in the United States. To prove him wrong you decide to put your economics training to work for you and decide to show him China's GDP in U.S. dollars, and to show him how smart you are, you also decide to calculate PPP GDP in China and compare that to the United States as well. You have the following data: In 2012, China's nominal GDP was CY 51.932 trillion (CY = Chinese yuan); the yuan-dollar exchange rate was CY 6.31/\$1; nominal GDP in the United States was \$15.685 trillion; the price level in the United States was 1.00 and the price level in China was 0.60. How big is China's economy?

ANS:

The first part of the question is straightforward. Just convert Chinese nominal GDP to dollars by dividing it by the yuan-dollar exchange rate (conversely, this is the same as multiplying it by the dollar-yuan exchange rate):

$$NGDP_{CH} = \frac{51.932}{\frac{6.31}{\$1}} = \$8.230$$

Thus the Chinese economy is about 65 percent the size of the U.S. economy. But to get a more accurate view we need to look at GDP adjusted for price differences, PPP adjusted Chinese GDP. So we use the equation:

$$PPPGDP_{CH} = P_{U.S}/P_{CH} \times \$NGDP_{CH} = 1.667 \times \$8.23 \ tril = \$13.72 \ tril.$$

Thus, once we take price differences into consideration, the Chinese economy is only about \$2 trillion smaller than the U.S. economy.

DIF: Difficult REF: 2.4 TOP: IV. MSC: Analyzing

7. You are a staff economist for your local bank and the bank manager asks you to calculate whether Qatar (QAT), Luxembourg (LUX), or the United States (USA) is biggest in per capita terms when adjusted for price differences. She gives you the following data table and asks you to fill in the missing values.

Population (column A) and GDP (D) are in millions. GDP in column D is in domestic currency, the euro for Luxembourg, the Qatari rial for Qatar, and the U.S. dollar for the United States. The exchange rate (B) is units of foreign currency per U.S. \$1, and P_{US}/P_i is the relative price level for the United States and the other countries.

Table GDP, Population, and Exchange Rate Data in 2010

	Pop	Exchange Rate	P_{US}/P_{i}	GDP (millions)	Per Capita GDP National Currency	Per Capita GDP (\$s)	PPP Per Capita GDP (\$s)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
LUX	0.498	0.76	0.87	36,561	_	_	_
QAT	0.841	3.64	1.01	470,422	_	_	_
USA	310.23	1.00	1.00	14,584,731	_	_	_

ANS:

The calculation will be done using columns rather than numbers.

- First you need to calculate per capita GDP in national currency, which is simply D/A;
- To get per capita GDP in dollars: *E/C*;
- To get PPP PC GDP: $F \times C$;
- This gives you the following table.
- You can conclude total GDP in the United States is the largest, but all levels of per capita GDP are largest in Qatar and smallest in the United States.

Table

	Pop	Exchange Rate	$P_{\rm US}/P_{\rm i}$	GDP (millions)	Per Capita GDP National Currency	PCGDP (\$s)	PPPPC GDP (\$s)
	A	В	С	D	Е	F	G
LUX	0.498	0.76	0.87	36,561	73,484	97,324	84,892
QAT	0.841	3.64	1.01	470,422	559,410	153,684	155,119
USA	310.23	1.00	1.00	14,584,731	47,012	47,012	47,012

DIF: Difficult REF: 2.4 TOP: IV. MSC: Applying