CHAPTER 2 Measuring the Macroeconomy

MULTIPLE CHOICE

- 1. Who created the original National Income and Product Accounts in the 1930s?
 - a. John M. Keynes
 - b. Paul A. Samuelson
 - c. William D. Nordhaus
 - d. Simon Kuznets
 - e. Milton Friedman

ANS: D REF: Section 2.1 TOP: Factual

- 2. 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 REF: Section 2.1 TOP: Factual

3. The National Income and Product Accounts allows us to relate ______ 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
- e. total output; total spending; total income

ANS: E REF: Section 2.1 TOP: Applied

- 4. The National Income and Product Accounts identity states:
 - a. Expenditure = Production + Income.
 - b. Production = Expenditure Income.
 - c. Production = Expenditure + Income.
 - d. Expenditure = Production Income.
 - e. Production = Expenditure = Income.

ANS: E REF: Section 2.2 TOP: Applied

- 5. The difference between *economic* profits and *normal* profits is that:
 - a. normal profits are earnings based on the normal competitive return to one's own labor; economic profits are the above-normal returns associated with prices that exceed competitive prices.
 - b. economic profits are earnings based on the normal competitive return to one's own

- labor; normal profits are the above-normal returns associated with prices that exceed competitive prices.
- c. normal profits are earnings based on the normal competitive return to one's own labor; economic profits are the above-normal returns associated with prices that exceed monopolistic prices.
- d. economic profits are earnings based on the noncompetitive return to one's own labor; normal profits are the above-normal returns associated with prices that exceed competitive prices.
- e. None of the above is correct.

	c. None of the abov	C 13 CO1.	icci.		
	ANS: A	REF:	Section 2.2	TOP:	Factual
6.	A lesson from micro charge prices above a. costs b. revenues c. normal profits d. economic profits e. variable costs	margina			is some market power where firms e zero.
	ANS: D	REF:	Section 2.2	TOP:	Applied
7.	A lesson from micro equal to marginal coa a. revenues b. economic profits c. normal profits d. variable costs e. wages	st,		-	et competition, where firms charge prices
	ANS: C	REF:	Section 2.2	TOP:	Applied
8.	The statistic used by a. the unemployme b. GDP. c. the CPI. d. the GDP deflator e. the federal funds	nt rate.	nists to measur	e the va	lue of economic output is:
	ANS: B	REF:	Section 2.2	TOP:	Factual
9.	An economy'sa. consumption; incomplete on graph c. expenditure on graph d. investment; gove e. taxes; net exports	come oods an oods; ex ernment	d services; outp expenditure on s	put	·
	ANS: B	REF:	Section 2.2	TOP:	Factual

- 10. 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.
 - b. Y = C + I + G NX.
 - c. Y + C = I + G + NX.
 - d. Y = (C + I + G)/NX.
 - e. Y = C + I + G + NX.
 - ANS: E REF: Section 2.2 TOP: Applied
- 11. 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.
 - b. Y C = I + G NX.
 - c. Y-C-G-I=NX.
 - d. Y = (C + I + G)/NX.
 - e. Y = C + I + G.
 - ANS: C REF: Section 2.2 TOP: Applied
- 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, which of the following is the national income identity?
 - a. Y = C + I + G NX
 - b. Y = C + I + G + NX
 - c. Y + C = I + G + NX
 - d. Y = (C + I + G)/NX
 - e. Y = C + I + G

ANS: B REF: Section 2.2 TOP: Applied

Table 2.1: U.S. 2006 Gross Domestic Product (\$billions)

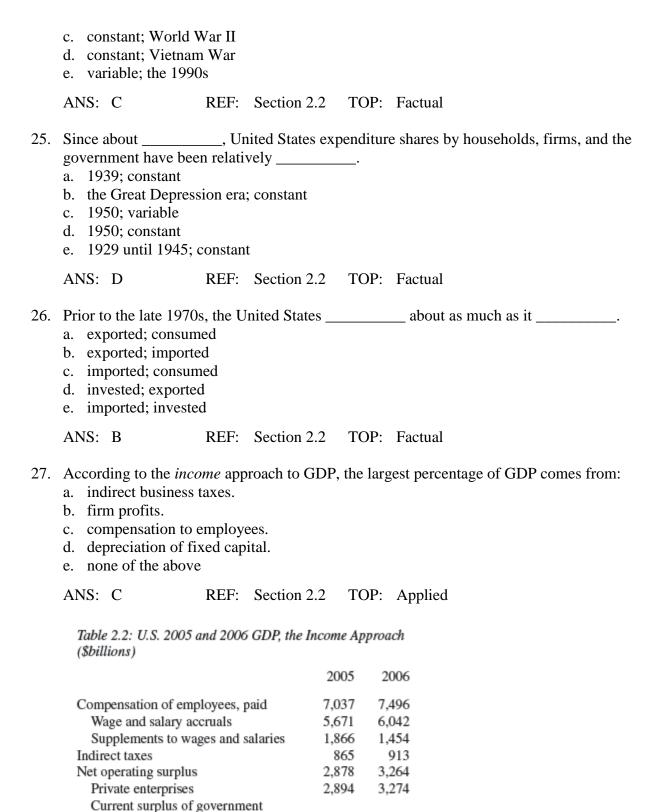
Personal consumption expenditures	9,269
Goods	3,785
Services	5,484
Gross private domestic investment	2,213
Fixed investment	2,163
Change in private inventories	50
Net exports of goods and services	-763
Exports	1,466
Imports	2,229
Government expenditures	2,528
Federal	927
State and local	1,601

- 13. Consider Table 2.1, the National Income Accounts for 2006. From the data, total GDP is:
 - a. \$30,951 billion.
 - b. \$13,247 billion.

	c. \$14,772 billion.d. \$14,009 billion.e. \$10,719 billion.				
	ANS: B	REF:	Section 2.2	TOP:	Factual
14.	In 2005, household e. a. 19 percent b. 40 percent c. 16 percent d. 70 percent e. 11 percent	xpendit	ures accounted	for abo	ut of total GDP.
	ANS: D	REF:	Section 2.2	TOP:	Factual
15.	In 2005, investment ea. 70 percent b. 40 percent c. 16 percent d. 19 percent e. 11 percent	expendi	tures accounted	d for abo	out of total GDP.
	ANS: C	REF:	Section 2.2	TOP:	Factual
16.	In 2005, government a. 11 percent b. 40 percent c. 16 percent d. 70 percent e. 19 percent	expend	itures accounte	ed for ab	oout of total GDP.
	ANS: E	REF:	Section 2.2	TOP:	Factual
17.	b. only nondefense toc. only federal goved. only state and loce. residential investo	efense federal grnment al government an	federal, state, a government ex expenditures. rnment expend d state and loc	nd local penditur litures. al gover	res.
	ANS: A	REF:	Section 2.2	TOP:	Factual
18.	b. household purchac. household purcha	uses of courses of cou	lurable and nor lurable and nor lurable and nor lurable and nor	ndurable ndurable ndurable ndurable ods.	e goods and services.

19. Using the expenditure approach, investment includes

	a. household resideb. firm structures,c. fixed firm and hd. government ande. government defe	equipment ousehold firm equ	nt, and invento I structures, eq iipment expen	uipment ditures.		ories.	
	ANS: C	REF:	Section 2.2	TOP:	Factual		
20.	Which of the follow Accounting? a. transfer paymen b. taxes c. Social Security d. changes in the s e. all of the above	ts		the expo	enditure app	roach to Nationa	l Income
	ANS: E	REF:	Section 2.2	TOP:	Applied		
21.	Which of the follow Accounting? a. defense expenditure c. residential expenditure d. household service e. none of the above	tures es on equ nditures ce expend	ipment	the expo	enditure app	roach to Nationa	l Income
	ANS: D	REF:	Section 2.2	TOP:	Applied		
22.	In 2005, the U.S. G. a. \$5 trillion; cons b. \$12.5 trillion; gc c. \$10.5 trillion; in d. \$12.5 billion; cc e. \$12.5 trillion; cc	umption overnment ovestment onsumption	nt expenditures t on		1	_ was the largest	share.
	ANS: E	REF:	Section 2.2	TOP:	Factual		
23.	Which of the follow Accounting? a. software b. taxes c. defense expendid. d. a and b e. none of the above	tures	oot included in	the expo	enditure app	roach to Nationa	l Income
	ANS: B	REF:	Section 2.2	TOP:	Factual		
24.	United States expense relatively excapations excaps a. constant; the 19 b. variable; the Green constant is the Green constant of the con	cept durii 70s	ng		rms, and the	government have	e been



-10

1,577

1,311

266

-15

1,605

1,353

252

enterprises

Private

Government

Depreciation of fixed capital

28.	GDP in 2005 was: a. \$10,780. b. \$24,884. c. \$14,073. d. \$12,385.			unts for	2005 and 2006. From this data, total
	e. Not enough inform ANS: D		Section 2.2	т∩р∙	Factual
• •					
29.	a. labor's; rising b. labor's; falling c. profits'; falling d. indirect business ta e. the health sector's;	xes'; r	ising	re of GI	OP has been
	ANS: B	REF:	Section 2.2	TOP:	Factual
30.	When the city of Los A be due to the a. GDP; costs b. revenues; costs c. taxes; benefits d. interest rates; costs e. prices; costs	a	-		ficers, may rise, but it may
	ANS: A	REF:	Section 2.2	TOP:	Conceptual
31.	When a state builds a magnetic improve(s) a. income; welfare b. GDP; taxes c. GDP; transfers d. GDP; welfare e. taxes; costs	_	nitentiary,		_ rise(s), but that does not imply that
	ANS: D	REF:	Section 2.2	TOP:	Conceptual
32.	Which of the following a. A student buys ano b. You purchase a use c. The government bu d. You fix your own s e. a and c ANS: E	ther your ded stero	ear of tuition. eo from a frien	ıd.	
33.		g does ther ye	not count towa		nges in the current GDP?

	c. The local police station bd. The Pentagon buys gasole. b and c	•	l cars.	
	ANS: B REF:	Section 2.2	TOP:	Conceptual
34.	-	e previous own	ers had	owing scenario? A real estate agent sells purchased 10 years earlier for \$90,000.
	ANS: C REF:	Section 2.2	TOP:	Factual
35.	•	d pays him \$50 tinues to perfor),000 to	1 2005 in the following scenario? In 2004, perform butler services. In 2005, she er services.
	ANS: C REF:	Section 2.2	TOP:	Factual
36.	Nominal GDP is the prices. a. value; 1945 b. summation; current c. value; a previous year's d. value; current e. summation; base year	of all goo	ods and	services produced in a period of time
	ANS: D REF:	Section 2.3	TOP:	Applied
37.	Real GDP is the prices. a. summation; current b. value; base year c. value; 1970 d. value; 1945 e. summation; base year	of all goods a	nd servi	ices produced in a period of time using
	ANS: B REF:	Section 2.3	TOP:	Factual
38.	Nominal GDP is given bya. Nominal GDP = Price le b. Nominal GDP = Price le	vel × Real GDI	P; 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
	ANS: A REF: Section 2.3 TOP: Factual
39.	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 REF: Section 2.3 TOP: Factual
40.	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; GDP deflator e. Price level = Nominal GDP ÷ Real GDP; GDP deflator ANS: E REF: Section 2.3 TOP: Factual
41.	The percent change in the nominal GDP is given as: a. percent change in the price level + percent change in Real GDP. b. percent change in the price level - percent change in Real GDP. c. percent change in the price level × percent change in Real GDP. d. percent change in the price level ÷ percent change in Real GDP. e. price level × percent change in Real GDP. ANS: A REF: Section 2.3 TOP: Applied
42.	If the percent change in the price level is than the percent change in a. 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 stays the same e. Not enough information is given. ANS: B REF: Section 2.3 TOP: Applied
13	Nominal gross domestic product is defined as:

- 43. 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 REF: Section 2.3 TOP: Factual

- 44. Nominal gross national product is defined as:
 - a. 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.
 - 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, within its borders, over a period of time, at base-year prices.
 - e. the value of *all* goods produced by an economy, within its borders, over a period of time, at base-year prices.

ANS: A REF: Section 2.3 TOP: Factual

- 45. 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 REF: Section 2.3 TOP: Factual

- 46. Real gross national product is defined as:
 - a. 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.
 - b. 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.
 - 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 produced by an economy, within its borders, over a period of time, at current prices.
 - e. the value of *all* goods and services produced by an economy, within its borders, over a period of time, at base-year prices.

ANS: A REF: Section 2.3 TOP: Factual

Table 2.3: National Income Accounting

	2004	2005
Quantity of almonds	1,000	1,100
Quantity of DVDs	500	500
Price of almonds	\$1.00	\$1.50
Price of DVDs	\$15.00	\$14.75

- 47. Consider Table 2.3. Using the Laspeyres index, the real GDP in 2004 is:
 - a. \$8,900.
 - b. \$8,500.
 - c. \$1,500.
 - d. \$15,500.
 - e. \$9,150.

ANS: B REF: Section 2.3 TOP: Factual

- 48. Consider Table 2.3. Using the Laspeyres index, the real GDP in 2005 is:
 - a. \$9,025.
 - b. \$8,500.
 - c. \$8,600.
 - d. \$9,150.
 - e. \$8,475.

ANS: C REF: Section 2.3 TOP: Applied

- 49. Consider Table 2.3. Using the Paasche index, the real GDP in 2005 is:
 - a. \$9,150.
 - b. \$8,500.
 - c. \$8,600.
 - d. \$9,025.
 - e. \$8,475.

ANS: D REF: Section 2.3 TOP: Applied

- 50. Consider Table 2.3. Using the Paasche index, real GDP in 2004 is:
 - a. \$8,475.
 - b. \$8,500.
 - c. \$8,600.
 - d. \$9,150.
 - e. \$8,875.

ANS: E REF: Section 2.3 TOP: Applied

- 51. Consider Table 2.3. Using the Laspeyres index, inflation between 2004 and 2005 was about:
 - a. 0 percent.
 - b. 5 percent.
 - c. 1 percent.
 - d. 6 percent.
 - e. Not enough information is given.

	ANS: B	REF:	Section 2.3	TOP:	Applied
52.	Consider Table 2.3. a. 6 percent. b. 5 percent. c. 0 percent. d. 1 percent. e. Not enough inform			dex, the	e percent change in real GDP was about:
	ANS: D	REF:	Section 2.3	TOP:	Applied
53.	Consider Table 2.3. about: a. 5 percent. b. 1 percent. c. 6 percent. d. 0 percent. e. Not enough inform			dex, the	e percent change in nominal GDP was
	ANS: C	REF:	Section 2.3	TOP:	Applied
54.	prices. a. Laspeyres; final b. Paasche; final c. Paasche; initial d. chain-weighted; e. chain-weighted;	current final			index, we use the period's
	ANS: B		Section 2.3		
55.	If we calculate the reindex. If, instead, we a. Paasche; chain-web. Laspeyres; chain c. Laspeyres; Paascd. Paasche; Laspey e. chain-weighted;	veighted -weight che res	ed	al period prices, v	d's prices, we are using a index.
	ANS: C	REF:	Section 2.3	TOP:	Factual
56.	The chain-weighted a. a constant base y b. a constantly char c. a base year that o d. a base year that o e. none of the above	ear. nging ba changes changes e	se year. every five year every ten years	rs.	
	ANS: B	REF:	Section 2.3	TOP:	Factual

57.	**	indices. With th	e Laspe	OP from year 1 to year 2 using both the yres index we get 12 percent and with the d growth of real GDP is:
	ANS: E REF:	Section 2.3	TOP:	Applied
58.	 calculate inflation? a. percent change in NGD b. percent change in NGD c. percent change in NGD d. percent change in RGD e. percent change in RGD 	P + percent char P - percent char P × percent char P + percent char	nge in R nge in R nge in R nge in N	GDP GDP GDP GDP
	ANS. B KEF.	Section 2.5	TOP.	ractual
59.	 calculate the growth of the sa. percent change in NGD b. percent change in NGD c. percent change in NGD d. percent change in P + p e. percent change in P - p 	real GDP? P – percent char P + percent char P × percent char ercent change in	nge in P nge in P nge in P n NGDP	
60.	a. rises; 8 percent b. falls; 8 percent c. rises; 2 percent d. falls; 2 percent e. none of the above		-	e level rises by 5 percent, then the real
61.	ANS: D REF: . If the nominal GDP rises by GDP by by a. falls; 3 percent b. rises; 9 percent c. rises; 3 percent d. falls; 9 percent e. none of the above	6 percent and		Applied elevel rises by 3 percent, then the real
		Section 2.3	TOP:	Applied

62.	To	get a more accurate view of the size of countries	'economies, we first need to convert
	eac	ch country's GDP to the dollar using	and then adjust for
	a.	the interest rate; the exchange rate	

- b. the exchange rate; price level differences
- c. price level differences; the interest rate
- d. the exchange rate; fiscal policy
- e. fiscal policy; the exchange rate

ANS: B

TOP: Conceptual

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

REF: Section 2.3

b. Real GDP
$$\frac{\text{U. S. prices}}{\text{MEX}} = \frac{\text{Price level MEX}}{\text{Price level U.S}} \times \text{Nominal GDP MEX}$$

c. Real GDP
$$\frac{\text{U. S. prices}}{\text{MEX}} = \frac{\text{Price level U.S}}{\text{Price level MEX}} \times \text{Nominal GDP U.S.}$$

d. Real GDP
$$\frac{\text{U. S. prices}}{\text{MEX}} = \frac{\text{Price level U. S}}{\text{Price level } \text{MEX}} + \text{Nominal GDP U. S.}$$

e. none of the above

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

b. Real GDP
$$\frac{\text{U. S. prices}}{\text{MEX}} = \frac{\text{Price level }_{\text{U.S.}}}{\text{Price level }_{\text{MEX}}} \times \text{Nominal GDP }_{\text{U..S.}}$$

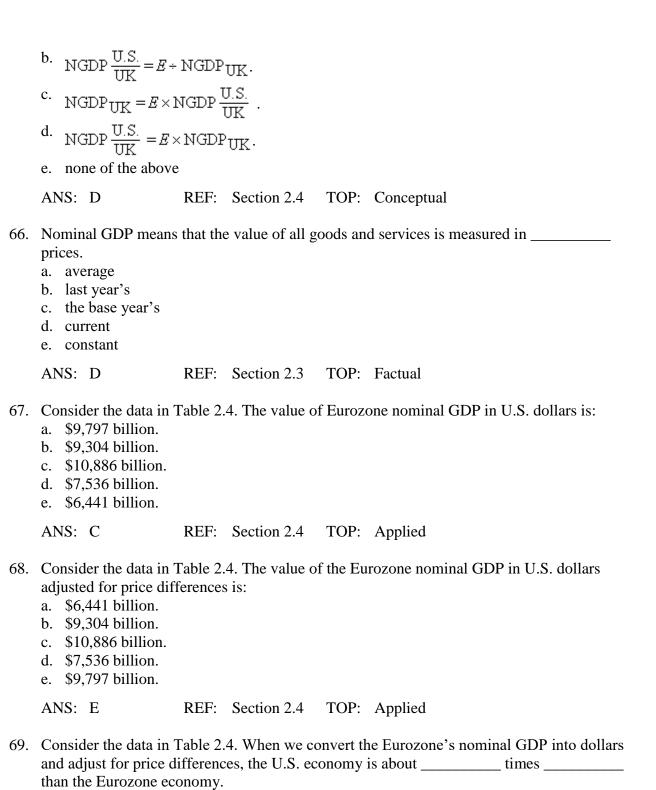
c. Real GDP
$$\frac{\text{U. S. prices}}{\text{MEX}} = \frac{\text{Price level U.S.}}{\text{Price level MEX}} \div \text{Nominal GDP U.S.}$$

d. Real GDP
$$\frac{\text{U. S. prices}}{\text{MEX}} = \frac{\text{Price level }_{\text{U.S.}}}{\text{Price level }_{\text{MEX}}} \div \text{Nominal GDP }_{\text{U..S.}}$$

e. none of the above

65. Define
$$E = \$/£$$
 as the dollar/pound exchange rate and NGDP_{UK} as the United Kingdom's nominal GDP; then NGDP $\frac{U.S}{UK}$, the United Kingdom's nominal GDP in dollars, is given by:

a.
$$E = \text{NGDP}_{\overline{\text{UK}}} \text{NGDP} \frac{\overline{\text{U.S.}}}{\overline{\text{UK}}}$$
.



REF: Section 2.4 TOP: Applied

a. 1.35; smallerb. 1.35; biggerc. 1.22; biggerd. 1.22; smaller

ANS: B

e. Not enough information is given.

70.	Consider the data in a but do not adjust for than the a. 1.22; smaller b. 1.35; smaller c. 1.35; bigger d. 1.22; bigger e. Not enough information.	price di Eurozo	fferences, the lone economy.				lollars
	ANS: D	REF:	Section 2.4	TOP:	Applied		
71.	Which macroeconoma. the unemploymerb. interest ratesc. exchange ratesd. all of the above e. none of the above	it rate	bles has the te	xt <i>not</i> ye	et discussed in m	nuch detail?	
	ANS: D	REF:	Section 2.4	TOP:	Factual		
72.	Which macroeconoma. nominal GDPb. real GDPc. GDP deflatord. all of the abovee. none of the above		bles has the te	xt <i>not</i> ye	et discussed in m	nuch detail?	
	ANS: E	REF:	Section 2.4	TOP:	Factual		
TRUE/	FALSE						
1.	The largest GDP expe	enditure	e share historic	ally has	been governmen	nt expenditure.	
	ANS: F FEEDBACK: It is co	nsumpt	ion expenditur	e.			
	REF: Section 2.2	TOP:	Factual				
2.	In 2005, consumption	n expen	ditures accoun	ted for a	bout 70 percent	of the total GDP.	
	ANS: T	REF:	Section 2.2	TOP:	Factual		
3.	The value added for a of the intermediate go	-	-			rm's output <i>plus</i> tl	ne value
	ANS: F FEEDBACK: It is eq goods used to produc			firm's c	output <i>minus</i> the	value of the inter	mediate
	REF: Section 2.2	TOP:	Applied				

4. According to the expenditure approach to GDP, household expenditures include purchases of residential housing.

ANS: F

FEEDBACK: Residential housing is included in investment expenditures.

REF: Section 2.2 TOP: Applied

5. According to the expenditure approach to GDP, investment expenditures include purchases of residential housing.

ANS: T REF: Section 2.2 TOP: Applied

6. According to the income approach to GDP, the largest portion of GDP is compensation to employees.

ANS: T REF: Section 2.2 TOP: Applied

7. According to the income approach to GDP, the largest portion of GDP is net operating surplus.

ANS: F

FEEDBACK: It is compensation to employees.

REF: Section 2.2 TOP: Applied

8. In the income approach to GDP, fixed capital depreciation is defined as the after-tax profits of a firm.

ANS: F

FEEDBACK: It is the decline in the value of capital due to wear and tear.

REF: Section 2.2 TOP: Factual

9. GDP measures all economic activity.

ANS: F

FEEDBACK: It measures only *market* activity.

REF: Section 2.2 TOP: Factual

10. When you cook yourself dinner, you are contributing to economic activity, but it is not measured in GDP.

ANS: T REF: Section 2.2 TOP: Conceptual

11. When you buy a car from your brother, which he bought new in 2000, the purchase adds to the current GDP.

ANS: F

FEEDBACK: It added to 2000's GDP.

REF: Section 2.2 TOP: Conceptual

12. GDP often is used as a "measure" of economic welfare; it includes all factors that contribute to economic wellbeing.

ANS: F

FEEDBACK: It does not include costs like pollution, crime, depletion of resources, and environmental degradation.

REF: Section 2.2 TOP: Conceptual

13. If the percent change in prices is greater than the percent change in the nominal GDP, the real GDP shrinks.

ANS: T REF: Section 2.3 TOP: Applied

14. If the percent change in prices is greater than the percent change in the nominal GDP, the real GDP rises.

ANS: F

FEEDBACK: It shrinks: $g_{NGDP} = g_{NGDP} \pi < 0$.

REF: Section 2.2 TOP: Applied

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

ANS: F

FEEDBACK: We use the initial period's prices.

REF: Section 2.3 TOP: Factual

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

ANS: T REF: Section 2.3 TOP: Factual

17. 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

FEEDBACK: The real GDP *rises* by 7 percent.

REF: Section 2.3 TOP: Applied

18. 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 REF: Section 2.4 TOP: Applied

19. 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

FEEDBACK: We also need to account for price level differences.

REF: Section 2.4 TOP: Factual

20. 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

FEEDBACK: 3.5 = (1/2)(4% + 3%).

REF: Section 2.3 TOP: Conceptual

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 (for example, walls built to buffer noise pollution) increase GDP but may not improve welfare. Also it does not account for other costs of production, e.g., pollution, crime, resource depletion, etc.

REF: Section 2.2 TOP: Applied

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).

REF: Section 2.2 TOP: Applied

3. What are the components which make up the *income approach* to calculating GDP? What are the components which 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; government expenditures

REF: Section 2.2 TOP: Factual

- 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.
 - (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 LedZeppelin's 1971 North American Tour you bought online last week

ANS:

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

REF: Section 2.2 TOP: Conceptual

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

	2007	2008	2009
Quantity of y	100	105	103
Quantity of x	5	3	4
Price of y	\$5	\$5	\$4.5
Price of x	\$100	\$105	\$110

- (a) Calculate Real GDP for all three years.
- (b) Calculate the Consumer Price Index (CPI), using 2007 as the base year. Identify whether or not there was inflation from the previous year.

ANS:

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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:

*2007: RGDP = 100¥ \$5 + 5 ¥ \$100= \$1,000

*2008: The equation for the CPI is:

$$CPI = \frac{P_x^C \cdot Q_x^B + P_y^C \cdot Q_y^B}{P_x^B \cdot Q_x^B + P_y^B \cdot Q_y^B} \times 100$$

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

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

*2007: Since the base and current year are the same: $CPI_{0.7} = 100$;

*2008: $\frac{815}{1000} \times 100 = 81.5$, prices fell 19.5 percent from 2007 to 2008;

*2009: $\frac{903.5}{1000} \times 100 = 90.35$, prices are 9.65 percent lower in 2009 than in 2007, but are

about 11 percent higher than in 2008.

REF: Section 2.3 TOP: Conceptual

ANS:

The first part of the question is straight-forward. 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):

$$NGDP_{CH} = 26.324tril(7.35 / $1) = $3.581tril.$$

Thus the Chinese economy is about 26 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:

$$PPPGDP_{CH} = P_{U,S}P_{CH} \times \$NGDP_{CH} = 10.32 \times \$3.581tril = \$12.034$$
.

Thus, once we take price differences into consideration, the Chinese economy is only about \$1.5 trillion smaller than the U.S. economy.

REF: Section 2.4 TOP: Conceptual