Name :		https://selldocx.com/product	ts/test-bank-macroeco Class :	nomics-11e-mankiw Dat e:
Chapte	er 2		·	o.
1. The	econon	nic statistic used to measure the le	vel of prices is:	
	a.	gross domestic product (GDP)	· ·	
	b.	consumer price index (CPI).		
	c.	gross national product (GNP).		
	d.	real GDP.		
ANSWE	ER:			b
2. The	statistic	economists use to measure the va	alue of economic output is:	:
	a.	the consumer price index (CPI	).	
	b.	gross domestic product (GDP)		
	c.	the GDP deflator.		
	d.	the unemployment rate.		
ANSWE	ER:			b
3. The 1	total in	come of everyone in the economy	is exactly equal to the total	ıl:
г	a. exp	enditure on the economy's output	of goods and services.	
ł	o. con	sumption expenditures of everyon	e in the economy.	
C	c. exp	enditures of all businesses in the e	economy.	
(	d. gov	ernment expenditures.		
ANSWE	ER:			a
4. An e	conom	y's equals its		
	a. co	nsumption; income		
	b. co	nsumption; expenditure on goods	and services	
	c. ex	penditure on goods; expenditures	on services	
	d. tot	al income; total expenditure on go	oods and services	
ANSWE	ER:			d
5. Two	equiva	lent ways to view gross domestic	product (GDP) are as the:	
	total pa	syments made to all workers in the momy.	e economy or the total prof	fits of all firms and businesses in
		spenditures on all goods produced rices in the economy.	in the economy or the total	al income earned from producing
	_	ofits of all firms and businesses in s by all households in the econom		consumption of goods and
	total in	come of everyone in the economy vices.	or the total expenditure of	n the economy's output of goods
ANSWI	ER:			d
		ar flow model, the flow of dollars	from firms to households	is paid, and the flow of dollar

:	
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a. as wages, capital income, and profits; for goods and services	
b. for value added; as imputed values	
c. in current dollars; in constant dollars	
d. as interest and dividends; for depreciation and taxes	
ANSWER:	a
7. Which of these is a flow variable?	
a. wealth	
b. the number unemployed	
c. government debt	
d. income	
ANSWER:	d
8. Which of these is a stock variable?	
a. wealth	
b. consumption	
c. investment	
d. income	
ANSWER:	a
9. All of these are stock variables EXCEPT:	
a. a consumer's wealth.	
b. the government budget deficit.	
c. the number of unemployed people.	
d. the amount of capital in the economy.	
ANSWER:	ь
10. All of these are flow variables EXCEPT:	
a. the number of new automobile purchases.	
b. the number of people losing their jobs.	
c. business expenditures on plant and equipment.	
d. the government debt.	
ANSWER:	d
11. The amount of capital in an economy is a(n), and the amount of investment is a(n	) .
a. flow; stock	
b. stock; flow	
c. final good; intermediate good	
d. intermediate good; final good	
ANSWER:	b

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12. The market called:	value of all	inal goods and services produced within	an economy in a given period of time is
a. in	dustrial prod	uction.	
b. gi	ross domestic	product.	
c. th	e gross dom	estic product (GDP) deflator.	
d. ge	eneral durabl	e purchases.	
ANSWER:			ь
13. Gross dome	_	(GDP) is the market value of all g f time.	goods and services produced within an
	a.	used	
	b.	intermediate	
	c.	consumer	
	d.	final	
ANSWER:			d
	<ul><li>b. \$7</li><li>c. \$8</li><li>d. \$1</li></ul>		
ANSWER:			b
15. All of these 2009 EXCEPT		that took place in 2009 would be include of a:	ed in gross domestic product (GDP) for
a. boo	k titled The	Year 3000 that was printed in 2009.	
	1 Jeep Chero		
<u>-</u>		dar printed in 2009.	
	et to see the	movie 2001.	
ANSWER:			b
	-	uct out of inventory, gross domestic product	duct (GDP):
a. increas			
b. decrea			
c. is not o	_		
	ses or decrea	ses, depending on the year the product w	as produced.
ANSWER:			c
17. When a firn			tures, and consumption expenditures

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·			
a	,		
b	,		
c	,	<u> </u>	
ANGWED.	l. remain unchanged; ir	ıcrease	1.
ANSWER:			b
	tic product (GDP) increases	orkers and pays them wages and the sin all of these cases EXCEPT w	hat the workers produce more bread when the bread:
a.			
b.	•		
c.	$\mathcal{E}$	wn away.	
d.	is sold to other firms.		
ANSWER:			c
19. When bre	ead is baked but put away fo	or later sale, this is called:	
	a. waste.	,	
	b. saving.		
	c. fixed investment.		
	d. investment in inver	ntory.	
ANSWER:			d
		ald's a quarter-pound of meat for \$1 in this case, gross domestic production \$0.50. \$1. \$2. \$3.	\$1 and that McDonald's sells you a uct (GDP) increases by:
ANSWER:		*-	c
navigation sy \$20,000. In the (GDP) is: a. \$20, b. \$20, c. \$20,	ystem for \$500, and the auto- his case, the amount from the ,000. ,000 less the automobile con ,900.	omobile company puts all of these transactions that should be company's profit on the car.	y for \$400, another company sells a e items in or on a car that it sells for counted in gross domestic product
21. Assume to navigation sy \$20,000. In the (GDP) is:  a. \$20, b. \$20, c. \$20,	ystem for \$500, and the auto- his case, the amount from the ,000. ,000 less the automobile con ,900.	omobile company puts all of these transactions that should be c	y for \$400, another company se e items in or on a car that it sell counted in gross domestic produ

ANSWER:

a

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22. The value added	of an item	produced refers to:			
a. a firm's profi	ts on the i	em sold.			
b. the value of t	he labor in	nputs in the production of	f an item.		
c. the value of a	ı firm's ou	tput less the value of its of	costs.		
	ı firm's ou	tput less the value of the	intermediate goods th	nat the firm purchases.	
ANSWER:					d
	•	the parts that it puts into ells the automobile for \$2		* *	
1 7	a.	\$10,000.			
	b.	\$12,000.			
	c.	\$20,000.			
	d.	\$22,000.			
ANSWER:					b
<ul><li>b. production a</li><li>c. the amount o</li></ul>	on used g dded to in of producti	oods are included. ventories is excluded. on in the underground ecte goods is included in the	• •	final goods.	d
25. To avoid double walue of goods	_	n the computation of gros	ss domestic product (	GDP), GDP includes or	nly the
a		final			
b	).	used			
c		intermediate			
d	l.	investment			
ANSWER:					a
26. An example of ar	imputed	value in the gross domes	tic product (GDP) is t	the:	
a. value ad	lded of me	eals cooked at home.			
b. housing	services 6	enjoyed by homeowners.			
		automobiles to their own	ers.		
	fillegal dr	ugs sold.			
ANSWER:					b

27. In principle, the gross domestic product (GDP) accounts should—but do not—have an imputation for:

housing services enjoyed by homeowners.

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b. renta	l services of autor	nobiles driven by owners.	
c. meal	s cooked in restau	rants.	
d. housi	ing services enjoy	ed by renters.	
ANSWER:			b
28. The undergrou	und economy:		
_	-	oss domestic product (GDP) acc	counts.
b. includes	only illegal activi	ties.	
c. includes	domestic workers	for whom Social Security tax	is not collected.
d. excludes	the illegal drug tr	ade.	
ANSWER:			c
29. Nominal gross	s domestic produc	t (GDP) means the value of go	ods and services is measured in prices
	a.	current	r
	b.	real	
	c.	constant	
	d.	average	
ANSWER:			a
30. Real gross do	mestic product (G	DP) means the value of goods	and services is measured in prices.
C	a.	current	·
	b.	actual	
	c.	constant	
	d.	average	
ANSWER:			c
If 4 apples were p	produced in 2002 a ic product (GDP) a.	and 5 in 2009, whereas 3 orange (in 2002 prices) in 2009 was: \$5.	s oranges cost \$1 in 2002 and \$1.50 in 2009. es were produced in 2002 and 4 in 2009, then
	b.	\$6.50.	
	c.	\$9.50.	
ANSWER:	d.	\$11.	b
_	_		rillion and real GDP in 2009 equals \$11
trillion, what is th			
	a. b	0.79	
	b.	1.03	
	c.	1.27	

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	d.	3.2	
ANSWER:			c
33. If the gross domes trillion, what is the value a. b. c. d.	• ` ′	<u> </u>	d nominal GDP in 2009 equals \$15
ANSWER:	ψ10.75 μιμισμ		a
b. the ration of	o of nominal GDP to roo of real GDP to nomi OP minus national GDI Il GDP minus real GDI	eal GDP. nal GDP. P.	a nges cost \$1 in 2002 and \$1.50 in 2009.
If 4 apples were produ	ced in 2002 and 5 in 2		re produced in 2002 and 5 in 2009, then
8	a.	1.5.	
	b.	1.7.	
	c.	1.9.	
	d.	2.0.	
ANSWER:			b
36. If nominal gross de deflator grew by appro	• '		1 GDP grew by 3 percent, then the GDP
ANSWER:	u.	o	a
37. If nominal gross do percent, then real GDF a. b. c.	by perc increased; 2	ent.	d the GDP deflator increased by 3

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	·	٥.
		Ե.

d. decreased; 8

ANSWER:

- 38. Real gross domestic product (GDP) is a better measure of economic well-being than nominal GDP because real GDP:
  - a. excludes the value of goods and services exported aboard.
  - b. includes the value of government transfer payments.
  - c. measures changes in the quantity of goods and services produced by holding prices constant.
  - d. adjusts the value of goods and services produced for changes in the foreign exchange rate.

ANSWER:

- 39. Chain-weighted measures of real gross domestic product (GDP) make use of prices from a(n):
  - a. unchanging base year.
  - b. continuously changing base year.
  - c. base year that is changed approximately every five years.
  - d. base year that is changed approximately every ten years.

ANSWER: b

- 40. The national income accounts identity for an open economy is:
  - a. Y = C + I + G NX.
  - b. Y = C + I + G + NX.
  - c. Y = C + I + G.
  - d. Y = C + I G.

ANSWER: b

- 41. If gross domestic product (GDP) measured in billions of current dollars is \$5,465, consumption is \$3,657, investment is \$741, and government purchases are \$1,098, then net exports are:
  - a. \$131.
  - b. -\$131.
  - c. \$31.
  - d. -\$31.

ANSWER:

- 42. If gross domestic product (GDP) measured in billions of current dollars is \$5,465, consumption is \$3,657, investment is \$741, and net exports are -\$1,910, then government purchases are:
  - a. \$2,977.
  - b. \$1,910.
  - c. -\$843.
  - d. \$1,067.

ANSWER: a

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_		omestic product (GDP) y approximately		and population g	rew by 2 percent, then real GDP
r r e	,··	a.		2	
		ь		3	
		c.		4	
		d		8	
ANSWER:					c
44. In the na		income accounts, con	sumption expenditu	res include all of	these EXCEPT household
-	a.	durable goods.			
	b.	nondurable goods.			
	c.	new residential hou	using.		
	d.	services.			
ANSWER:					c
45. In the na		income accounts, the	purchases of durabl	es, nondurables,	and services by households are
	a.	consumption.			
	b.	investment.			
	c.	government purch	ases.		
	d.	net exports.			
ANSWER:					a
46. In the na	ational	income accounts, goo	ods bought for future	e use are classifie	ed as which type of expenditure?
	a.	services			and the second sylven and the second
	b.	investment			
	c.	government purch	nases		
	d.	net exports			
ANSWER:		-			ь
		nent measured in billiced investment is \$222.		_	usiness fixed investment is \$524,
		a.	\$5.		
		b.	-\$5.		
		c.	\$15.		
		d.	-\$15.		
ANSWER:					ь

48. In the national income accounts, all of these are classified as government purchases EXCEPT: Copyright Macmillan Learning. Powered by Cognero.

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a.	payments m	ade to Soc	ial Security re	ecipients.		
b.			olice officers.	-		
c.	purchases of	• •				
d.	services pro	vided by U	S. senators.			
ANSWER:					a	L
49. In the 1	national income	e accounts,	government j	purchases are goods	and services purchased by:	
a.	the federal	governmei	nt.	_	-	
b.	the federal	and state g	governments.			
c.	the state an	d local gov	vernments.			
d.	the federal,	state, and	local governr	nents.		
ANSWER:					d	
50. In the r	national income	accounts,	net exports e	qual exported goods	:	
a.	minus import		1			
b.	-	_	orted goods a	nd services.		
c.	minus import	ed service	S.			
d.	and services	plus impor	ted goods and	l services.		
ANSWER:		_	_		b	
_	-	` ′			ollars is \$5,465 and the sum of exports equal \$673, imports are:	
		b.	-\$673.			
		c.	\$704.			
		d.	-\$704.			
ANSWER:					c	;
52. All of t	these actions ar	e investme	ents in the sen	se of the term used b	by macroeconomists EXCEPT:	
a.	Apple buildin	g a new fa	ctory.			
b.	a corner cand	y store buy	ing a new con	mputer.		
c.	John Smith by	aying a nev	wly constructe	ed home.		
d.	Sandra Santia	go buying	100 shares of	Apple stock.		
ANSWER:					d	
53. In 2013	3, the gross don	nestic prod	luct (GDP) of	the United States to	taled about:	
	a.	-	billion.			
	b.	\$168	billion.			
	c.	\$16.8	trillion.			
	d.	\$168	trillion.			

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ANSWER:		c
54. Gross national product (GN foreigners income that na	P) equals gross domestic product (GDP)ationals earn abroad.	income earned domestically by
a. p	olus; plus	
b. r	minus; minus	
c. r	minus; plus	
d. p	olus; minus	
ANSWER:		c
55. Net national product equals	gross national product (GNP):	
a. plus net	investment.	
b. minus ne	et investment.	
c. plus depr	reciation.	
d. minus de	epreciation.	
ANSWER:		d
<ul><li>56. National income differs from</li><li>a. depreciation.</li><li>b. indirect busines</li></ul>	m net national product by an amount called:	
c. statistical discre	epancy.	
<del>-</del>	or income payments.	
ANSWER:		c
57. The largest component of na a. corporate pro		
<del>-</del>	n of employees.	
c. proprietors'	ncome.	
d. net interest.		
ANSWER:		b
58. Disposable personal income	2:	
a. is computed by subtra	acting personal tax from personal income.	
b. is generally greater th	_	
c. includes corporate pro	ofits but not dividends.	
d. does not include gove	ernment transfers to individuals.	
ANSWER:		a
59. According to the usual season	onal pattern of the U.S. economy, gross dome	estic product (GDP) is highest in the

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quarter of the year that includes:

		:e:	
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a.	January, February, and Mar	ch.	
b.	April, May, and June.		
c.	July, August, and Septembe	er.	
d.	October, November, and De		
ANSWER:			d
60. A farme	r grows wheat and sells it to a m	niller for \$1; the miller turns the wheat into flour and	d sells it to a
		ke bread and sells the bread for \$6. The value added	
	a.	\$1.	
	b.	\$2.	
	c.	\$3.	
	d.	<b>\$</b> 6.	
ANSWER:			b
	does not change gross domestic decreases GDP by \$60,000. increases GDP by \$60,000. increases GDP by more than \$60,000.		ь
			_
	sumer price index (CPI) is deter	• 1 0	
	verage of prices of all goods and rice of a basket of goods and se	ervices that changes every year, relative to the same	hasket in a
	year.	reviews that changes every year, relative to the same	ousket in u
year.	_	and services, relative to the price of the same basket	in a base
	inal gross domestic product (GI	OP) relative to real GDP.	
ANSWER:			c
63. Prices of	items included in the consume	r price index (CPI) are:	
a. aver	aged, with the price of every ite	em weighted equally.	
b. weig	thted according to the amount o	of the item produced in gross domestic product (GD)	P).
c. weig	ghted according to the quantity of	of the item purchased by the typical household.	
d. chai	ned to the base year by the year	-to-year growth rate of the item.	
ANSWER:			c

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64. The core inflation rate:

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	:	e:

- a. measures the change in producer prices.
- b. is measured using a Paasche index.
- c. excludes food and energy prices.
- d. includes the price of exports and includes the price of imports.

ANSWER:

- 65. Measuring the rate of inflation using a market basket that excludes food and energy prices is preferred by some analysts because this measure, called core inflation,
  - a. provides a real, rather than a nominal, rate of inflation.
  - b. gives a better measure of ongoing, sustained price changes.
  - c. is more consistent with measures of inflation used in other countries.
  - d. fluctuates more than measures of inflation that include food and energy prices.

ANSWER: b

- 66. An increase in the price of goods bought by firms and the government will show up in:
  - a. the consumer price index (CPI) but not in the gross domestic product (GDP) deflator.
  - b. the GDP deflator but not in the CPI.
  - c. both the CPI and the GDP deflator.
  - d. neither the CPI nor the GDP deflator.

ANSWER: b

- 67. An increase in the price of imported goods will show up in:
  - a. the consumer price index (CPI) but not in the gross domestic product (GDP) deflator.
  - b. the GDP deflator but not in the CPI.
  - c. both the CPI and the GDP deflator.
  - d. neither the CPI nor the GDP deflator.

ANSWER:

- 68. Assume that the market basket of goods and services purchased in 2004 by the average family in the United States costs \$14,000 in 2004 prices, whereas the same basket costs \$21,000 in 2009 prices. However, the basket of goods and services actually purchased by the average family in 2009 costs \$20,000 in 2009 prices, whereas this same basket would have cost \$15,000 in 2004 prices. Given these data, a Laspeyres price index of 2009 prices using 2004 as the base year would be:
  - a. 1.05.
  - b. approximately 1.07.
  - c. approximately 1.33.
  - d. 1.50.

ANSWER:

69. Assume that the market basket of goods and services purchased in 2004 by the average family in the United

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States costs \$14, of goods and ser	000 in 2004 prices, whereas the same by vices actually purchased by the average would have cost \$15,000 in 2004 price ld be:	e family in 2009 costs \$20,000 i	in 2009 prices, whereas
a	1.05.		
b	approximately 1.07.		
c.	approximately 1.33.		
d	1.50.		
ANSWER:			c
70. The consume	er price index (CPI) is a:		
a.	Laspeyres price index.		
b.	Paasche price index.		
c.	Laspeyres quantity index.		
d.	Paasche quantity index.		
ANSWER:			a
71. The gross do	mestic product (GDP) deflator is a:		
a.	Laspeyres price index.		
b.	Paasche price index.		
c.	Laspeyres quantity index.		
d.	Paasche quantity index.		
ANSWER:			ь
a. the b. the	of different goods are increasing by dif- goods, the price index that will rise the PCE index. consumer price index (CPI). gross domestic product (GDP) deflato	fastest is:	substitute away from
d. a F	aasche index.		
ANSWER:			b
index (CPI)a	,		t the consumer price
ANSWER:	underestimates; 10		0
THINDII LAN.			a

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74. A fixed-weight because it more expensive.	_ take into account that peop		the change in the cost of living e goods for ones that have become
a.	underestimates; does no	t	
b.	overestimates; does		
c.	accurately estimates; do	es	
d.	overestimates; does not		
ANSWER:	,		d
75. According to that person:	o the definition used by the U	J.S. Bureau of Labor Statistics	s, a person is not in the labor force if
a. is going	g to school full time.		
b. is temp	orarily absent from a job bec	cause of illness.	
c. has bee	en temporarily laid off.		
d. is out o	of a job and was looking for	work during the previous four	weeks.
ANSWER:			a
unemployed if to a. are our	hey: t of a job but not looking for		s, people are considered to be
	from the labor force before	•	
	· ·	for work in the past four week	s.
	sent from work because of b	ad weather or illness.	
ANSWER:			c
	rce equals the: It population. nber of employed individuals		
	nber of employed individuals		
	iber of unemployed marvidu iber of employed and unemp		
ANSWER:	ioer or employed and unemp	noyed marviduals.	d
78 If 7 million	workers are unemployed 14	3 million workers are employe	ed, and the adult population equals
	± •	als approximately perc	
	a.	3.5	
	b.	4.7	
	c.	4.9	
	d.	7	
ANSWER:			b

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79. The labor-	-force participation rate	is the percentage of the	:	
a.	adult population that is	employed.		
b.	adult population that is	in the labor force.		
c.	labor force that is empl	oyed.		
d.	labor force that is unen	ployed.		
ANSWER:				ь
80. If the uner		cent and the number of	employed is 188 million, the	en the labor force
	a.	11.28		
	b.	176.72		
	c.	188		
	d.	200		
ANSWER:				d
ANSWER: 82. If the adult	• •	million, of which 145 n	million are employed and 5	b million are
unemployed,	the labor-force participa a.	tion rate equals	percent.	
	b.	58		
	c.	60		
	d.	67		
ANSWER:				c
83. If the numrate:	nber of employed increa	ses while the number of	f unemployed does not chan	ge, the unemployment
a.	will increase.			
<b>b</b> .	will decrease.			
c.	will not change.			
d.	may either increase	or decrease.		
ANSWER:				ь
	ited States since the end por-force participation r		omen have increased.	

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b. the	labor	-force participation rates of both men and women have decreased.	
		-force participation rate of men has increased, while the labor-force as decreased.	participation rate of
		-force participation rate of men has decreased, while the labor-force as increased.	participation rate of
ANSWER:			d
	,	ld survey conducted by the Bureau of Labor Statistics provides estimates while the establishment survey provides estimates of the number of	
	a. b.	self-employed; unemployed unemployed; self-employed	
	о. с.	with jobs; on firms' payrolls	
	d.	on firms' payrolls; with jobs	
ANSWER:	u.	on mins payrons, with joos	c
II (5) / LIC.			C
86. The em	ployı	ment statistics computed from the establishment survey do NOT incl	lude:
a		vorkers with two jobs.	
b	). t	hose who are self-employed.	
c	. 1	workers on firms' payrolls.	
d	l. 1	part-time workers on firms' payrolls.	
ANSWER:			b
27 A work		th two jobs is counted:	
		both the household and the establishment surveys.	
		the household survey but twice in the establishment survey.	
		the establishment survey but twice in the household survey.	
		n both the household survey and the establishment survey.	
a. tv ANSWER:	wice i	if both the household survey and the establishment survey.	ь
ANSWEK.			U
88. An esti	mate	of the number of unemployed workers in the economy can be obtain	ned from:
a. 1	both t	he household survey and the establishment survey.	
b. 1	the ho	busehold survey but not from the establishment survey.	
c. 1	the es	tablishment survey but not from the household survey.	
d. 1	neithe	r the household survey nor the establishment survey.	
ANSWER:			b
90 Eass		oon calculate the IIC symanulayment arts by spring.	
		can calculate the U.S. unemployment rate by using:	
		he household survey and the establishment survey.	
b. ·	uie no	busehold survey but not the establishment survey.	

c. the establishment survey but not the household survey.

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d. neither the household survey nor the establishment survey.

ANSWER: b

90. Exhibit: Totals Recorded for United States (billions of dollars)

Durable goods consumption	\$497
Nondurable goods consumption	1,301
Services consumption	2,342
Business fixed investment	566
Residential fixed investment	224
Inventory investment	7
Federal government purchases	449
State and local government purchases	683
Exports	640
Imports	670
Excess of GNP over GDP	7
Depreciation	658
Indirect business taxes	551
Corporate profits (includes wage accruals less disbursements)	387
Social insurance contributions	556
Net interest	442
Dividends (includes business transfer	162
payments)	
Government transfers to individuals	837
Personal interest income	694
Personal tax and nontax payments	645

<sup>\*</sup>Note: The numbers given in this exhibit and the answers to the following question differ from those in Table 2-1 of the text.

In this exhibit, what were gross domestic product (GDP), consumption expenditures, investment expenditures, government purchases, and net exports?

*ANSWER*: \$6,039; \$4,140; \$797; \$1,132; and -\$30 billion.

#### 91. Exhibit: Totals Recorded for the United States

Durable goods consumption	\$497
Nondurable goods consumption	1,301
Services consumption	2,342
Business fixed investment	566
Residential fixed investment	224
Inventory investment	7
Federal government purchases	449
State and local government purchases	683
Exports	640
Imports	670
Excess of GNP over GDP	7

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Depreciation	658
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Dividends (includes business transfer	162
payments)	
Government transfers to individuals	837
Personal interest income	694
Personal tax and nontax payments	645

<sup>\*</sup>Note: The numbers given in this exhibit and the answers to the following question differ from those in Table 2-1 of the text.

In this exhibit, what were net national product, national income, personal income, and disposable personal income?

*ANSWER:* \$5,388; \$5,388; \$5,145; and \$4,500 billion.

#### 92. Exhibit: Totals Recorded for the United States

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2
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\*Note: The numbers given in this exhibit and the answers to the following question differ from those in Table 2-1 of the text.

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In this exhibit, what were the approximate ratios of consumption, investment, and government purchases to gross domestic product (GDP)?

ANSWER: about 69 percent; about 13 percent; and about 19 percent

#### 93. Exhibit: Quantity Consumed and Price of Good

	Base Year	Later Year
Price of good A	100	200
Quantity of good A	100	200
Price of good B	100	100
Quantity of good B	100	100

In this exhibit, the citizens of country XYZ come to desire more of good A. As a result, the quantity and price of the good both rise.

- a. Compute nominal gross domestic product (GDP) in the base year and later year.
- b. Compute real GDP in the base year and later year.
- c. Compute the GDP deflator in the later year, using your answers to parts (a) and (b).
- d. Compute a fixed-weight price index for the later year, using the base-year quantities as weights.
- e. Which price index rises faster, the GDP deflator (Paasche) index or the fixed-weight index (Laspeyres) index?

ANSWER:

- a. Base-year nominal GDP = 20,000. Later-year nominal GDP = 50,000.
- b. Real GDP in base year = 20,000. Real GDP in later year = 30,000.
- c. Gross national product (GNP) deflator in later year = 1.667.
- d. Fixed-weight index = 1.50.
- e. The Paasche index, with current quantity weights, rises faster in this case than the base-year quantity-weighted Laspeyres index.
- 94. Assume that two countries have the same nominal gross domestic product (GDP) (measured in the same currency using the same accounting rules). Provide at least three reasons why you cannot assume that citizens in each country enjoy approximately the same level of economic well-being.

ANSWER: Some possible, but not all, explanations include:

- a. Different price levels in the two countries would result in different amounts of real GDP, that is, different quantities of goods and services available in each country.
- b. Different-sized populations could result in different quantities of goods and services available per person in each country.
- c. Different levels of nonmarket production in the two countries would alter the quantity of goods and services available in each country.
- d. Different amounts of leisure time available (not captured in nominal GDP figures) would cause economic well-being to differ in the two countries.
- e. Different distributions of income in the two countries could alter the quantity of goods and services available to the typical citizen in each country.
- f. Different quantities of both positive and negative externalities associated with producing GDP, such as pollution and congestion, which are not measured in GDP, would cause the different levels

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of economic well-being between the two countries.

- 95. A number of statistics are computed to measure the price level, such as the gross domestic product (GDP) deflator and the consumer price index (CPI). The choice of which of these measures to use depends in many cases on the specific question in which you are interested. For each of these situations, state whether the CPI or GDP deflator is a more appropriate measure to use and explain why the statistic is preferred.
- a. You are interested in looking at the impact of higher prices of imported oil in the overall cost of living.
- b. The government is interested in whether increases in defense spending are affecting the aggregate price level.
- c. An economic consulting firm is investigating the impact on the aggregate price level of more computers and electronic technology used in production.

ANSWER:

- a. The CPI is the more appropriate statistic here because the price of imports is not included in the GDP deflator.
- b. The GDP deflator is the more appropriate statistic here because the CPI does not include the prices of goods and services purchased by the government sector.
- c. The GDP deflator is the more appropriate statistic here because the CPI does not include prices of goods and services purchased by businesses or the government sector.
- 96. There are a number of measures of aggregate economic activity, such as gross domestic product (GDP), gross national product (GNP), national income, personal income, and disposable personal income. Each of these measures can be a good indicator, depending on the issue under consideration. For each of these issues, give your reasons for selecting one of the measures just mentioned as the best indicator to use in studying the issue:
- a. the proportion of income households save
- b. the relative share of earnings going to labor versus capital
- c. the total output of final goods and services

*ANSWER:* 

- a. Disposable personal income provides a measure of the income households have to use for either consumption or saving after they pay taxes.
  - b. National income provides a measure of the income going to the factors of production.
  - c. GDP is the most complete measure of the value of newly produced goods and services in the economy. In contrast, personal income includes transfer payments, which do not represent newly produced goods and services.
- 97. Real gross domestic product (GDP) per capita is an imperfect measure of economic well-being because it does not value home production or production in the underground economy, among other factors. Give at least two examples that show why the omission of these types of items will make a difference in evaluating economic well-being. One example should explain how the omissions distort comparisons of economic well-being across countries, and another example should explain how the omission distorts comparisons of economic well-being in the same country over time.

ANSWER:

Answers will vary, but one example could show that measured GDP in one country could be much lower than in another country, but the amount of home production in the first country could be very large. In this case, measured real GDP indicates a much larger difference in economic well-being than actually exists between the countries.

The other example could explain how changes in the amount of home production in a country over time make it difficult to compare economic well-being over time. For example, if most people

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grew their own food initially and then over time moved to commercial agriculture, the increase in real GDP per person would overstate the increase in the amount of goods and services available in the country, since the food grown at home was not counted in real GDP in the early period.

98. Based on the data in the table, explain what happened to output and prices in the economy between 2009 and 2010.

	2009	2010
Nominal GDP (\$ billions)	\$14,700	\$15,200
Real GDP (\$ billions 2000 chain	\$12,100	\$11,900
weighted)		

ANSWER:

Real GDP decreased, which indicates that the production of final goods and services was lower in 2010 than in 2009. Nominal GDP increased, which indicates that prices, on average, were higher in 2010 than in 2009, given that real GDP decreased.

- 99. Explain why the value of gross domestic product (GDP) in 2012 would or would not change as a result of each transaction described.
- a. In 2012, the Smith family purchases a new house that was built in 2012.
- b. In 2012, the Jones family purchases a house that was built in 2001.
- c. In 2012, a construction company purchases windows to put in the new Smith family home that was built in 2012.
- d. In 2012, Mr. Jones paints all of the rooms of the Jones family house purchased in 2009, using paint and supplies purchased in 2012.
- e. In 2012, Mr. Smith uses an online brokerage service to purchases shares of stock in a construction company.
- *ANSWER.*
- a. GDP in 2012 increases by the purchase price of the house, which is a newly produced good.
- b. GDP in 2012 does not change because the house is not a newly produced good, since it was built in 2001. Transactions involving used goods are not included in GDP.
- c. GDP in 2012 does not change directly because the windows are intermediate goods, not final goods. The value of intermediate goods is not included in GDP to avoid double counting. The value of the windows is implicitly included in the price of the house.
- d. GDP in 2012 would change by the purchase price of the paint and supplies but not by the implicit value of the painting services provided by Mr. Jones because home production is not included in GDP.
- e. GDP in 2012 would increase by the charge for using the online brokerage service but not by the amount of stock purchase because financial transactions do not represent the production of final goods and services and are not included in GDP.
- 100. Explain which expenditure category of gross domestic product (GDP) changes and the direction of the change that results for each transaction described.
- a. A domestic business purchases a domestically produced computer to use in a business office.
- b. A domestic business produces a computer that is sold to a foreign company.
- c. The federal government purchases a domestically produced computer to use in a courthouse.
- d. A domestic household purchases a domestically produced computer to use in a home.
- e. A domestic household purchases a computer produced in a foreign country to use in a home.

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ANSWER:

- a. Investment spending increases by the price of the computer.
- b. Exports (and net exports) increase by the price of the computer.
- c. Government spending increases by the price of the computer.
- d. Consumption spending increases by the price of the computer.
- e. Consumption spending increases by the price of the computer, but imports also increase by the price of the computer, so that net exports decrease by the price of the computer, and there will be no net change in GDP.
- 101. Sam wants a loan from Dean. While discussing the interest, Dean told Sam that he will give him two options. Which one should Sam choose and why? The options are:
- a. Sam will pay the nominal interest of 8 percent per annum.
- b. Sam will pay real interest of 4 percent per annum.

ANSWER:

Remember that Nominal Interest = Real Interest + Inflation. The answer actually depends upon the inflation rate. If the inflation rate is less than 4 percent, Sam should choose option (b). If the inflation rate is more than 4 percent, then option (a) is a more favorable choice for Sam. If inflation is 4 percent, Sam can go with either of the options as they will yield the same result.

102. "Gross domestic product (GDP) deflator is a better price level indicator than consumer price index (CPI)." Give reasons both supporting and opposing this statement.

ANSWER.

The advantage of using a GDP deflator is that it is calculated using all goods and services produced, including those bought only by firms and the government as well as consumers, and allows a changing basket of goods. This allows it to take into account consumers' ability to substitute less expensive goods for more expensive ones. The CPI is calculated using a fixed basket of goods bought only by consumers and does not take into account substitutions, so it tends to overstate the cost of living for consumers. However, the GDP deflator does not include imported goods, which do impact the CPI. It also doesn't count for any changes in consumer welfare that may result from substituting goods, and it tends to understate the cost of living for consumers.

103. Is real gross domestic product (GDP) a better measure of economic well-being of a country than nominal GDP? Give an explanation for your answer.

ANSWER

Yes. Nominal GDP is the current price multiplied by the quantity of all the goods and services produced in a country. Real GDP actually measures the total output (that is, the quantity), not the price. A growth in nominal GDP can be due to an increase in quantity or price or both. Real GDP keeps price constant using a base year, so it provides a clearer picture of economic well-being.

104. In 2015, John buys a factory built in 2009 and constructs a new storage house within the premises. The transaction of buying the factory is not counted in the gross domestic product (GDP), but the construction of the storage house in the same factory is counted in GDP. Why?

ANSWER: The factory was built in the year 2009, so it was already counted in that year's GDP. The storage house was a new addition in the year 2015, so only it will be considered in the current year's GDP, and not the whole factory.

105. Cass was paid \$500 in Social Security from the government. Though it was an expenditure made by the government, it is not included in the G component of gross domestic product (GDP). Explain why.

ANSWER: Even though the government paid Cass, it did not receive any good or service from Cass in return. This is a transfer

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payment (a reallocation of existing income). This payment will therefore not be included in the G component of GDP.

106. Bob bought \$5,000 worth of Adobe Systems stock. This transaction was brokered by John, who received \$50 for his help. I think the \$5,000 should be included in gross domestic product (GDP), and the \$50 should not be included in GDP. State whether I am right or wrong and provide an explanation for your answer.

ANSWER: You are wrong. The buying of shares does not contribute anything new to the economy: it is just transferring partial ownership from Adobe to Bob, so it will not be included in GDP. Help provided by John was actually a service, which added to the total output of the economy, and so \$50 will be added to the GDP.

- 107. Economic statistics are not perfect. Explain at least one way in which each of these statistics as currently calculated in the United States fails to completely or accurately measure the corresponding economic concept (in parentheses):
- a. real gross domestic product (GDP) per person (economic well-being)
- b. consumer price index (CPI) (cost of living)
- c. unemployment rate (involuntary unemployment)
- ANSWER.
- a. The official measure of GDP does not include measurements of leisure time available, non-market production, production in the underground economy, the distribution of income, or production externalities (e.g., pollution).
- b. The consumer price index (CPI) does not allow substitution away from products with rising prices and has difficulty distinguishing between price changes and quality changes in products included in the index.
- c. The official unemployment rate does not take into account discouraged workers, part-time workers who desire full-time employment, and workers employed in jobs not matching their skill level, such as taxi drivers with PhDs in physics.
- 108. "I like eating mangoes daily, but when their price rises, I switch to papayas." Does this statement support the fact that consumer price index (CPI) overstates inflation? (Assume that mangoes are included in the goods basket used to calculate the CPI, but papayas are not included.)
- ANSWER:

While calculating CPI, a fixed basket of goods and services is used. But as the statement shows, it is quite possible that when prices rise, people may switch to substitutes that are not accounted for in CPI. This non-adjusting attribute of the CPI overstates inflation.

- 109. One senator criticizes the government for making an inadequate effort to stimulate the economy based on data from the U.S. Bureau of Labor Statistics (BLS) establishment survey which shows that the number of jobs in the economy has fallen. Another senator counters that the number of employed workers in the economy has increased over the same period, based on the BLS household survey. Explain how both senators can be correct.
- ANSWER: If the number of self-employed workers and workers employed in new start-up firms (who are included in the household survey but not in the establishment survey) has increased more rapidly than the decline in payroll jobs counted in the establishment survey, then the number of employed workers as measured in the household survey could increase while the number of payroll jobs decreases.
- 110. Into which of the three categories—employed, unemployed, out of the labor force—would an interviewer for the Current Population Survey place each of these people? Explain.
- a. Jennifer Temple is working as a second-grade schoolteacher.

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- b. Frank Peabody is attending college full-time to earn a degree in elementary education.
- c. Martin Hampton is working as a high school social science teacher but is at home sick with the flu.
- d. Kyle Brown does not currently have a job. He wants to be an elementary-school teacher. He has the appropriate degree. He has not looked for a position in the past month because he doesn't believe schools are currently hiring.
- e. Brenda Dewey does not currently have a job. She has sent her resume to several school districts in the past week in the hope of finding a teaching position.

ANSWER:

- a. Employed. She is working as a full-time employee.
- b. Out of the labor force. Full-time students are not counted in the labor force.
- c. Employed. He is out sick but still an employee of the school.
- d. Out of the labor force. Discouraged workers are not counted in the labor force.
- e. Unemployed. She is actively looking for a job.
- 111. City A has a total population of 10 million, of which 70 percent are adults. Assume that 20 percent of the adult population is not looking for a job and 60 percent of the remaining adult population is employed. Compute the following:
- a. Labor-force participation rate
- b. Unemployment rate

ANSWER:

Adult Population = (10)(70)/100 = 7 million

Labor force = (7,000,000)(100-20)/100 = 5,600,000

Labor-force participation rate = (5,600,000)(100)/7,000,000 = 80 percent Unemployed population = ((100-60)(5,600,000))/100 = 2,240,000

Unemployment rate = ((2,240,000)(100))/5,600,000 = 40 percent