CHAPTER 2: Measuring the Macroeconomy

MULTIPLE CHOICE

1.	Who led the team that createa. John M. Keynesb. Paul A. Samuelsonc. William D. Nordhaus	ed the original Nati	ional d. e.	Income and Pr Simon Kuznet Milton Friedm	oduct A s an	Accounts in the	he 1930s?
	ANS: D DIF: MSC: Remembering	Easy RI	EF:	2.1	TOP:	I.	
2.	Which measure of overall eda. Stock pricesb. GDPc. Industrial production	conomic activity w	vas no d. e.	ot available in t Steel productio Gold prices	he 1930 on)s?	
	ANS: B DIF: MSC: Understanding	Easy RI	EF:	2.1	TOP:	I.	
3.	 The National Income and Pra. aggregating the product activity b. aggregating the product c. aggregating the product d. aggregating the product activity e. aggregating the product activity 	roduct Accounts protion of all goods and ion of all goods int ion of all services i ion of most goods and ion of all goods and	ovide d serv to a si into a and so d serv	es a system for: vices into a sing ingle measure of single measure ervices into a s vices into two r	gle mea of econ- e of eco ingle n neasure	asure of econ omic activity onomic activi neasure of ec es of econom	omic ity onomic ic
	ANS: A DIF: MSC: Understanding	Easy RI	EF:	2.1	TOP:	I.	
4.	In 2012, U.S. national output a. \$15.7 billion b. \$15.7 trillion c. \$50,000	it was equal to abor	ut: d. e.	\$10 trillion \$13.1 million			
	ANS: B DIF: MSC: Remembering	Easy RI	EF:	2.2	TOP:	11.	
5.	In 2012, U.S. national output a. \$15.7 billion b. \$43,000 c. \$50,000	it per person was ee	qual t d. e.	to about: \$12,000 \$80,000			
	ANS: C DIF: MSC: Remembering	Easy RI	EF:	2.2	TOP:	II.	
6.	The National Income and Pra. household income; gove b. total output; total spend c. total output; inflation; to d. household income; house	roduct Accounts all ernment income; fin ing; inflation otal income schold expenditure;	lows rm in ; total	us to relate come l output		to	to

e. total output; total spending; total income TOP: II.A. ANS: E DIF: Easy REF: 2.2 MSC: Applying 7. The National Income and Product Accounts identity states: a. Expenditure = Production + Income d. Expenditure = Production - Income b. Production = Expenditure - Income e. Production = Expenditure = Income c. Production = Expenditure + Income TOP: II.A. ANS: E DIF: Easy REF: 2.2 MSC: Applying 8. 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 these answers are correct. ANS: A DIF: Medium REF: 2.2 TOP: II.A. MSC: Understanding 9. Goods that are produced in a different year than they are sold are called: a. inventory d. a loss b. output adjustment e. net national product c. capital depreciation DIF: Medium REF: 2.2 TOP: II.A. ANS: A MSC: Remembering 10. The statistic used by economists to measure the value of economic output is: the unemployment rate d. the GDP deflator a. b. GDP e. the federal funds rate c. the CPI ANS: B REF: 2.2 TOP: II. DIF: Easy MSC: Understanding 11. An economy's is equal to its . a. consumption; income b. expenditure on goods and services; output c. expenditure on goods; expenditure on services d. investment; government expenditures e. taxes; net exports TOP: II.A. ANS: B DIF: Easy REF: 2.2 MSC: Understanding

12.	According to the expenditu government purchases, and a. $Y = C + I + G$ b. $Y = C + I + G - NX$ c. $Y + C = I + G + NX$	re approach, if <i>Y</i> <i>NX</i> is net export	is GD s, the r d. e.	P, C is consump national income Y = (C + I + G) Y = C + I + G	ption, <i>I</i> is investment, <i>G</i> is e identity can be written as: <i>F)/NX</i> + <i>NX</i>
	ANS: E DIF: MSC: Remembering	Easy	REF:	2.2	TOP: II.B.
13.	According to the expenditu government purchases, and a. $Y+C-G = I+NX$ b. $Y-C = I+G-NX$ c. $Y-C-G-I = NX$	re approach, if <i>Y</i> NX is net export	is GD s, the r d. e.	P, C is consumption that incomes Y = (C + I + G) Y = C + I + G	ption, <i>I</i> is investment, <i>G</i> is e identity can be written as: f)/ <i>NX</i>
	ANS: C DIF: MSC: Remembering	Easy	REF:	2.2	TOP: II.B.
14.	According to the expenditu government purchases, and a. $Y = C + I + G - NX$ b. $Y = C + I + G + NX$ c. $Y + C = I + G + NX$	re approach, if <i>Y</i> <i>NX</i> is net export	is GD s, whic d. e.	P, C is consump th of the follow Y = (C + I + C) $Y = C + I + G$	ption, <i>I</i> is investment, <i>G</i> is ying is the national income identity? f)/ <i>NX</i>
	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.	\$10,0	92 billion	
b.	\$15,076 billion			e.	\$6,38	2 billion	
c.	\$15,644 billion						
AN MS	IS: B SC: Applying	DIF:	Medium	REF:	2.2	TOP:	II.B.

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

	 a. \$36,858 billion b. \$13,991 billion c. \$16,245 billion 			d. e.	\$15,685 billi \$6,554 billio	on n	
	ANS: D MSC: Applying	DIF:	Medium	REF:	2.2	TOP:	II.B.
17.	Consider Table 2.1, GDP in 2011 was ab	which ta	abulates GD	P for 2011	–2012. The fe	deral go	overnment's share of total
	a. 19.5 percentb. 7.7 percentc. 12.2 percent			d. e.	20.3 percent 8.1 percent		
	ANS: D MSC: Applying	DIF:	Medium	REF:	2.2	TOP:	II.B.
18.	Consider Table 2.1, and invest	which ta tment's	abulates GD share	P for 2011 over 2	–2012. House 011–2012.	hold cor	nsumption as a share of GDP
	 a. decreased; increased; increased; increased; increased; increased; of decreased; staye 	ased ased d the sa	me	d. e.	increased; de stayed the sa	ecreased me; stay	yed the same
	ANS: A MSC: Applying	DIF:	Difficult	REF:	2.2	TOP:	II.B.
19.	In 2012, household e	expendi	tures accoun	ted for abo	out 0	of total (GDP.
	a. 50 percent	_		d.	76 percent		
	b. /1 percentc. 45 percent			e.	13 percent		
	ANS: B MSC: Remembering	DIF: g	Easy	REF:	2.2	TOP:	II.B.
20.	In 2012, investment	expendi	itures accour	nted for abo	out	of total	GDP.
	a. 71 percent			d.	10 percent		
	c. 13 percent			e.	16 percent		
	ANS: C MSC: Remembering	DIF: g	Easy	REF:	2.2	TOP:	II.B.
21.	In 2012, government	t expend	litures accou	inted for al	oout	_ of tota	l GDP.
	a. 5 percent			d.	13 percent		
	c. 66 percent			e.	20 percent		
	ANS: E MSC: Remembering	DIF: g	Easy	REF:	2.2	TOP:	II.B.
22.	In 2012, net exports	account	ted for about	t	of total GDP.		
	a4 percent			d.	100 percent		
	c. 20 percent			e.	-14 percent		
	ANS: A MSC: Remembering	DIF: g	Easy	REF:	2.2	TOP:	II.B.

23.	Net exports are also ca a. capital outflows b. the trade balance c. the current accourt	alled: nt		d. e.	foreign aid government tr	ansfers	
	ANS: A MSC: Remembering	DIF:	Easy	REF:	2.2	TOP:	II.B.
24.	Using the expenditure a. defense and nonde b. only nondefense f c. federal governmen d. only state and loca e. residential investm	appro efense ederal nt expe al gove nent ar	ach, governmen federal, state, a government ex enditures and tr ernment expendent of state and loc	nt expen and loca penditu ansfer p litures al gove	nditures include l government e pres payments rnment expend	e: xpendit itures	tures
	ANS: A MSC: Understanding	DIF:	Medium	REF:	2.2	TOP:	II.B.
25.	In 2012, government t a. one-third b. half c. 74 percent	ransfe	r payments acc	ounted d. e.	for about three-fifths 100 percent	of	government spending.
	ANS: A MSC: Applying	DIF:	Medium	REF:	2.2	TOP:	II.B.
26.	Using the expenditure a. durable and nondu b. durable and nondu c. durable and nondu d. durable and nondu e. nondurable goods	appro urable urable urable urable	ach, consumpti goods and serv goods goods and taxe goods and resid	on expe ices s lences	enditures incluc	le house	ehold purchases of:
	ANS: A MSC: Understanding	DIF:	Medium	REF:	2.2	TOP:	II.B.
27.	Using the expenditure a. household residen b. firm structures, eq c. fixed firm and hou d. government and fi e. government defen	appro tial ex juipme iseholo irm equ se and	ach, investmen penditures ont, and invento d structures, eq uipment expend firm equipmer	t includ ries uipmen ditures nt exper	es: t, and inventori iditures	es	
	ANS: C MSC: Understanding	DIF:	Medium	REF:	2.2	TOP:	II.B.
28.	Which of the followin accounting?a. transfer paymentsb. taxesc. Social Security	g is/ar	e NOT include	d in the d. e.	expenditure ap changes in sto None of these	proach ock pric answe	to national income es rs are correct.
	ANS: E MSC: Applying	DIF:	Medium	REF:	2.2	TOP:	II.B.

29.	Which of the following are NOTa. defense expendituresb. firm expenditures on equipmc. residential expenditures	included in the ex d. nent e.	penditure approa household serv All of these ans	ach to vice exp swers a	national income accounting? penditures are correct.
	ANS: E DIF: Me MSC: Applying	edium REF:	2.2	TOP:	II.B.
30.	In 2012, the U.S. GDP was about a. \$5 trillion; net exports b. \$22.5 billion; government ex- c. \$10.5 trillion; investment d. \$13.6 billion; consumption e. \$15.7 trillion; consumption	t, and	was the	e larges	st share.
	ANS: E DIF: Eas MSC: Remembering	sy REF:	2.2	TOP:	II.B.
31.	Which of the following is/are NG accounting?	OT included in the	expenditure app	roach	to national income
	a. softwareb. taxesc. defense expenditures	d. e.	All of these ans None of these a	swers a answer	are correct. 's are correct.
	ANS: B DIF: Me MSC: Applying	dium REF:	2.2	TOP:	II.B.
32.	U.S. expenditure shares by house except during	eholds, firms, and	the government l	have b	een relatively
	a. constant; the 1970sb. variable; the Great Depressionc. constant; World War II	d. on e.	constant; the V variable; the 19	'ietnam 990s	n War
	ANS: C DIF: Me MSC: Understanding	dium REF:	2.2	TOP:	II.C.
33.	Since about, U.S. exported relatively	enditure shares by	households, firm	ns, and	the government have been
	a. 1939; constantb. the Great Depression era; coc. 1950; variable	d. nstant e.	1950; constant 1929 until 1945	5; cons	stant
	ANS: D DIF: Me MSC: Understanding	dium REF:	2.2	TOP:	II.C.
34.	According to the text, the gains is a. caused a rapid decline in inv b. driven investment below 10 c. no impact on net exports d. been at a cost to net exports e. also pushed up the government	n GDP's consump entories percent and government sp ent expenditure sha	tion share has: pending are		
	ANS: D DIF: Me MSC: Understanding	dium REF:	2.2	TOP:	II.C.
35.	Prior to the late 1970s, the Unite	d States	about as much a	as it	

	a. exported; consumedb. exported; importedc. imported; consumed		d. e.	invested; exp imported; inv	orted ested
	ANS: B DIF MSC: Understanding	: Medium	REF:	2.2	TOP: II.C.
36.	According to the <i>income</i> a a. indirect business taxes b. firm profits c. compensation to empl	pproach to GDP s oyees	, the larg d. e.	gest percentage depreciation of None of these	of GDP comes from: of fixed capital e answers are correct.
	ANS: C DIF MSC: Understanding	: Easy	REF:	2.2	TOP: II.C.

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

	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	3,794	3,997
Current surplus of government enterprises	-27	-34
Depreciation of fixed capital	1,937	2,012
Private	1,587	1,648
Government	349	364

Table 2.2: U.S. 2011–2012 Domestic Income (\$ billions)

37. Consider Table 2.2, National Income Accounts for 2011 and 2012. From this data, total GDP in 2011 was about _____ billion.

a.	\$16,606			d.	\$15,044		
b.	\$14,008			e.	\$15,645		
c.	\$32,969						
AN MS	S: D C: Applying	DIF:	Medium	REF:	2.2	TOP:	II.C.

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 b. \$15,044 c. \$34,339			d. e.	\$14,576 \$17,201		
ANS: A MSC: Applying	DIF:	Medium	REF:	2.2	TOP:	II.C.

- 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: MSC:	A Applying	DIF:	Difficult	REF:	2.2	TOP:	II.C.
40	Since	about 1970		income share	of GDP	has been		
40.	a lab	or's: rising			h la	indirect busin	ess taxe	es': rising
	a. lat	or's: the same			u.	the health sec	tor's f	alling
	c pro	ofits': falling			с.	the neurin see	.01 5, 10	
	e. pr	, iuning						
	ANS:	В	DIF:	Easy	REF:	2.2	TOP:	II.C.
	MSC:	Remembering						
41	T. 41.		1.1		ין עעג	4 I.I.: 4 . 1 C4. 4		
41.	In the j	past 60 years o	r so, la irda	bor's share of C	JDP In	is equal to ear	es	
	a. 181	evactly 50 perce	nus		u.	has risen shar	ntai s i ntv	
	c is i	roughly one-th	ird		c.	nas risen shar	pry	
	c . 15 1	touginy one in	nu					
	ANS:	А	DIF:	Easy	REF:	2.2	TOP:	II.C.
	MSC:	Remembering						
40	XX 71	(h	A 1.	. 1.'	-1'6	· · · · · · · · · · · · · · · · · · ·		ning there is many the structure of the
42.	when	associated	with cr	ime	once of	ficers,		rise, but it may be due to the
	a GI	$\underline{P} \cdot costs$	with ci	IIIC.	h	interest rates.	costs	
	h rev	venues: costs			e.	prices: costs	costs	
	c. tax	tes: benefits			0.	prices, costs		
	ANS:	A	DIF:	Medium	REF:	2.2	TOP:	II.E.
	MSC:	Analyzing						
/13	When	a state builds a	new ne	enitentiary		rice(c) but that	does n	ot imply that
43.	When	a state builds a	new po	enitentiary,		rise(s), but that	does n	ot imply that
43.	When improv a. inc	a state builds a ve(s). come: welfare	new po	enitentiary,		rise(s), but that GDP: welfare	does no	ot imply that
43.	When improv a. inc b. GI	a state builds a ve(s). come; welfare DP: taxes	new po	enitentiary,	d. e.	rise(s), but that GDP; welfare taxes: costs	does no	ot imply that
43.	When improv a. inc b. GI c. GI	a state builds a ve(s). come; welfare DP; taxes DP; transfers	new po	enitentiary,	d. e.	rise(s), but that GDP; welfare taxes; costs	does no	ot imply that
43.	When a improvement of a second	a state builds a ve(s). come; welfare DP; taxes DP; transfers	new po	enitentiary,	d. e.	rise(s), but that GDP; welfare taxes; costs	does no	ot imply that
43.	When a improvement of a improvement of a incomplete the second se	a state builds a ve(s). come; welfare DP; taxes DP; transfers D	new po DIF:	enitentiary, Medium	d. e. REF:	rise(s), but that GDP; welfare taxes; costs 2.2	does no TOP:	ot imply that II.E.
43.	When a improve a. income b. GI c. GI ANS: MSC:	a state builds a ve(s). come; welfare DP; taxes DP; transfers D Analyzing	new po DIF:	enitentiary, Medium	d. e. REF:	rise(s), but that GDP; welfare taxes; costs 2.2	does no TOP:	ot imply that II.E.
43.	When a improve a. ince b. GI c. GI ANS: MSC: Which	a state builds a ve(s). come; welfare DP; taxes DP; transfers D Analyzing of the followin	DIF:	enitentiary, Medium	d. e. REF: ges in t	rise(s), but that GDP; welfare taxes; costs 2.2 he current GDE	does no TOP:	ot imply that II.E.
43.44.	When a improv a. inc b. GI c. GI ANS: MSC: Which a Yo	a state builds a ve(s). come; welfare DP; taxes DP; transfers D Analyzing of the followin	new po DIF: ng cour	enitentiary, Medium hts toward chan	d. e. REF: ges in t	rise(s), but that GDP; welfare taxes; costs 2.2 he current GDF	does no TOP: ??	ot imply that
43.44.	When a improve a. ince b. GI c. GI ANS: MSC: Which a. Yo b. Yo	a state builds a ve(s). come; welfare DP; taxes DP; transfers D Analyzing of the followin ou find \$10 on	DIF: ng cour the side	enitentiary, Medium ats toward chan ewalk. reo from a frier	d. e. REF: ges in t	rise(s), but that GDP; welfare taxes; costs 2.2 he current GDF	does no TOP: ??	ot imply that
43.44.	When a improve a. ince b. GI c. GI ANS: MSC: Which a. Ye b. Ye c. Th	a state builds a ye(s). come; welfare DP; taxes DP; transfers D Analyzing of the followin ou find \$10 on ou purchase a une government	DIF: ng cour the side used ster builds a	enitentiary, Medium hts toward chan ewalk. reo from a frier a new highway.	d. e. REF: ges in t	rise(s), but that GDP; welfare taxes; costs 2.2 he current GDF	does n TOP: ?	ot imply that
43.44.	When a improve a. income b. GI c. GI ANS: MSC: Which a. You b. You c. The d. You	a state builds a ve(s). come; welfare DP; taxes DP; transfers D Analyzing of the followin ou find \$10 on ou purchase a u e government ou fix your own	DIF: ng cour the side side ste builds a n sink.	enitentiary, Medium hts toward chan ewalk. reo from a frien a new highway.	d. e. REF: ges in t	rise(s), but that GDP; welfare taxes; costs 2.2 he current GDF	does no TOP: ??	ot imply that
43.44.	When a improve a. ince b. GI c. GI ANS: MSC: Which a. Ye b. Ye c. The d. Ye e. No	a state builds a ve(s). come; welfare DP; taxes DP; transfers D Analyzing of the followin ou find \$10 on ou purchase a u e government ou fix your own one of these ans	DIF: ng court the side used ster builds a n sink. swers a	enitentiary, Medium ats toward chan ewalk. reo from a frien a new highway. re correct.	d. e. REF: ges in t	rise(s), but that GDP; welfare taxes; costs 2.2 he current GDF	does no TOP: ??	ot imply that
43.44.	When a improv a. inc b. GI c. GI ANS: MSC: Which a. Yc b. Yc c. Th d. Yc e. No	a state builds a ve(s). come; welfare DP; taxes DP; transfers D Analyzing of the followin ou find \$10 on ou purchase a u e government ou fix your own	DIF: ng cour the side used stee builds a swers a	enitentiary, Medium hts toward chan ewalk. reo from a frien a new highway. re correct. Madium	d. e. REF: ges in t	rise(s), but that GDP; welfare taxes; costs 2.2 he current GDF	does no TOP: 2?	II.E.
43.	When a improve a. ince b. GI c. GI ANS: MSC: Which a. Yee b. Yee c. The d. Yee e. Not ANS: MSC:	a state builds a ve(s). come; welfare DP; taxes DP; transfers D Analyzing of the followin ou find \$10 on ou purchase a u e government ou fix your own one of these ans C	DIF: ng cour the side used ste builds a swers a DIF:	enitentiary, Medium hts toward chan ewalk. reo from a frien a new highway. re correct. Medium	d. e. REF: ges in t nd.	rise(s), but that GDP; welfare taxes; costs 2.2 he current GDF 2.2	does no TOP: ?? TOP:	ot imply that II.E. II.E.
43.	When a improve a. ince b. GI c. GI ANS: MSC: Which a. Yee b. Yee c. Th d. Yee e. No ANS: MSC:	a state builds a ve(s). come; welfare DP; taxes DP; transfers D Analyzing of the followin ou find \$10 on ou purchase a u se government ou fix your own one of these ans C Analyzing	DIF: ng cour the side used ste builds a sink. swers a DIF:	enitentiary, Medium ats toward chan ewalk. reo from a frien a new highway. re correct. Medium	d. e. REF: ges in t nd.	rise(s), but that GDP; welfare taxes; costs 2.2 he current GDF 2.2	does no TOP: ?? TOP:	ot imply that II.E. II.E.
43.44.45.	When a improv a. inc b. GI c. GI ANS: MSC: Which a. Yc b. Yc c. Th d. Yc e. Nc ANS: MSC: Which	a state builds a ve(s). come; welfare DP; taxes DP; transfers D Analyzing of the followin ou find \$10 on ou purchase a u e government ou fix your own one of these ans C Analyzing of the followin	DIF: ng cour the side used stee builds a swers a DIF: ng does	enitentiary, Medium hts toward chan ewalk. reo from a frien a new highway. re correct. Medium	d. e. REF: ges in t nd.	rise(s), but that GDP; welfare taxes; costs 2.2 he current GDF 2.2 2.2	does no TOP: ?? TOP: rrent G	ot imply that II.E. II.E.
43.44.45.	When a improve a. ince b. GI c. GI ANS: MSC: Which a. Yee b. Yee c. Th d. Yee e. No ANS: MSC: Which a. A s	a state builds a ve(s). come; welfare DP; taxes DP; transfers D Analyzing of the followin ou find \$10 on ou purchase a u e government ou fix your own one of these ans C Analyzing of the followin student buys an	DIF: ng cour the side used ste builds a swers a DIF: ng does	enitentiary, Medium hts toward chan ewalk. reo from a frien a new highway. re correct. Medium	d. e. REF: ges in t nd. REF: ward ch	rise(s), but that GDP; welfare taxes; costs 2.2 he current GDF 2.2 2.2	does no TOP: ?? TOP: rrent G	ot imply that II.E. II.E. DP?
43.44.45.	When a improve a. ince b. GI c. GI ANS: MSC: Which a. Yee b. Yee c. Th d. Yee e. No ANS: MSC: Which a. A a b. Yee	a state builds a ve(s). come; welfare DP; taxes DP; transfers D Analyzing of the followin ou find \$10 on ou purchase a u se government ou fix your own one of these ans C Analyzing of the followin student buys a ou buy a used c	DIF: ng cour the side sed ste builds a sink. swers a DIF: ng does nother y ar from	enitentiary, Medium ats toward chan ewalk. reo from a frien a new highway. re correct. Medium s NOT count to year of tuition. a your parents.	d. e. REF: ges in t nd. REF: ward ch	rise(s), but that GDP; welfare taxes; costs 2.2 he current GDF 2.2 2.2	does no TOP: ?? TOP: rrent G	ot imply that II.E. II.E.
43.44.45.	When a improve a. income b. GI c. GI ANS: MSC: Which a. You c. Th d. You e. Not ANS: MSC: Which a. A a b. You c. Th	a state builds a ve(s). come; welfare DP; taxes DP; transfers D Analyzing of the followin ou find \$10 on ou purchase a u e government ou fix your own one of these ans C Analyzing of the followin student buys ar ou buy a used c is local police s	DIF: ng cour the side sed ste builds a n sink. swers a DIF: ng does nother y ar from station	enitentiary, Medium hts toward chan ewalk. reo from a frien a new highway. re correct. Medium s NOT count to year of tuition. n your parents. buys new squad	d. e. REF: ges in t nd. REF: ward ch d cars.	rise(s), but that GDP; welfare taxes; costs 2.2 he current GDF 2.2 2.2	does no TOP: ?? TOP: rrent G	ot imply that II.E. II.E. DP?
43.44.45.	When a improve a. ince b. GI c. GI ANS: MSC: Which a. Yee c. Th d. Yee e. No ANS: MSC: Which a. A a b. Yee c. Th d. Th	a state builds a ve(s). come; welfare DP; taxes DP; transfers D Analyzing of the followin ou find \$10 on ou purchase a u e government ou fix your own one of these ans C Analyzing of the followin student buys ar ou buy a used c is local police s is Pentagon buy	DIF: ng cour the side ised ste builds a n sink. swers a DIF: ng does nother y ar from station by ys gaso	enitentiary, Medium hts toward chan ewalk. reo from a frien a new highway. re correct. Medium s NOT count to year of tuition. h your parents. buys new squad- line.	d. e. REF: ges in t nd. REF: ward ch d cars.	rise(s), but that GDP; welfare taxes; costs 2.2 he current GDF 2.2 anges in the cu	does no TOP: ?? TOP: rrent G	ot imply that II.E. II.E. DP?
43.44.45.	When a improve a. ince b. GI c. GI ANS: MSC: Which a. Yee b. Yee c. Th d. Yee e. Not ANS: MSC: Which a. A a b. Yee c. Th d. Th e. Not	a state builds a ve(s). come; welfare DP; taxes DP; transfers D Analyzing of the followin ou find \$10 on ou purchase a u se government ou fix your own one of these ans C Analyzing of the followin student buys ar ou buy a used c se Pentagon buy one of these ans	DIF: ng cour the side sed ste builds a sink. swers a DIF: ng does nother y ar from station by ys gaso swers a	enitentiary, Medium hts toward chan ewalk. reo from a frien a new highway. re correct. Medium s NOT count to year of tuition. n your parents. buys new squad line. re correct.	d. e. REF: ges in t nd. REF: ward ch d cars.	rise(s), but that GDP; welfare taxes; costs 2.2 he current GDF 2.2 anges in the cu	does no TOP: ?? TOP: rrent G	ot imply that II.E. II.E.

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.

	a. \$160,000 b. \$250,000 c. \$10,000	οι φτο,		d. e.	\$90,000 \$260,000)	
	ANS: C MSC: Analyzing	DIF:	Medium	REF:	2.2	TOP: II.E.	
47.	By how much does 0 woman has a chef an continues to cook.	GDP chand pays	ange betwee him \$50,000	n 2010 and to cook fo	2011 in t or her. In 2	he following scenario? In 2010, she marries the chef	2010, a rich and he
	a. GDP rises by \$5b. GDP is unchangec. GDP falls by \$50	0,000. ed. 0,000.		d. e.	GDP rise Not enou	es by \$25,000. Igh information is given.	
	ANS: C MSC: Analyzing	DIF:	Medium	REF:	2.2	TOP: II.E.	
48.	Nominal GDP is the		of all goo	ods and ser	vices proc	luced in a period of time u	sing
	a. value; 1945b. summation; currc. value; a previous	ent 5 year's		d. e.	value; cu summati	urrent on; base year	
	ANS: D MSC: Understandin	DIF: g	Medium	REF:	2.3	TOP: II.E.	
49.	If you own your own a. the geometric ma b. the original purc c. an estimate price d. "rental equivaler e. the value of your	home, ean of the hase price of you nts" thome t	National Ac ne highest ar ce r house base to your insur	counts use ad lowest p d on curren ance carrie	s riced hous nt market e	_ to measure the value of se in your neighborhood conditions	your home.
	ANS: D MSC: Remembering	DIF: g	Medium	REF:	2.2	TOP: II.E.	
50.	Real GDP is the	0	of all goods a	and service	s produce	d in a period of time using	;
	a. summation; currb. value; base yearc. value; 1970	ent		d. e.	value; 19 summati	045 on; base year	
	ANS: B MSC: Understandin	DIF: g	Medium	REF:	2.3	TOP: III.	
51.	Which of the following welfare?	ng is N	OT discusse	d in Jones	and Klenc	ow's alternative measure o	f economic
	a. inequalityb. leisure			d. e.	child mo consump	rtality rates tion share of GDP	

c. life expectancy

	ANS: D DIF: Easy REF: MSC: Remembering	2.3 T	OP:	III.A.
52.	Nominal GDP is given by, where the pri a. Nominal GDP = Price level × Real GDP; GDP b. Nominal GDP = Price level ÷ Real GDP; GDP c. Nominal GDP = Price level + Real GDP; CPI d. Nominal GDP = Price level - Real GDP; GDP e. Nominal GDP = Price level × Real GDP; CPI	ce level is the deflator deflator P deflator		
	ANS: A DIF: Easy REF: MSC: Remembering	2.3 T	OP:	III.
53.	 Real GDP is given by, where the price least a. Real GDP = Nominal GDP × Price level; CPI b. Real GDP = Nominal GDP ÷ Price level; GDP c. Real GDP = Nominal GDP + Price level; GDP d. Real GDP = Nominal GDP - Price level; GDP e. Real GDP = Nominal GDP ÷ Price level; CPI 	evel is the deflator deflator deflator		
	ANS: B DIF: Medium REF: MSC: Applying	2.3 T	OP:	III.
54.	 The price level can be derived as and is a a. Price level = Nominal GDP ÷ Real GDP; CPI b. Price level = Nominal GDP × Real GDP; CPI c. Price level = Real GDP × Nominal GDP; GDP d. Price level = Real GDP ÷ Nominal GDP; Paase e. Price level = Nominal GDP ÷ Real GDP; GDP 	called the deflator che deflator deflator		
	ANS: E DIF: Medium REF: MSC: Applying	2.3 T	OP:	III.
55.	 The percent change in the nominal GDP is given as a. percent change in the price level + percent change b. percent change in the price level - percent change c. percent change in the price level × percent change d. percent change in the price level ÷ percent change e. price level × percent change in real GDP 	s: nge in real GDP nge in real GDP nge in real GDP nge in real GDP		
	ANS: A DIF: Easy REF: MSC: Remembering	2.3 T	OP:	III.
56.	 If the percent change in the price level is 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 always stays e. Not enough information is given. 	than the percent	chang	ge in,
	ANS: B DIF: Medium REF: MSC: Applying	2.3 1	OP:	III.

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:	А	DIF:	Medium	REF:	2.3	TOP:	III.
MSC:	Understanding	5					

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

20172018Quantity of pistachios1,0001,100Quantity of video games500500Price of pistachios\$1.00\$1.50Price of video games\$15.00\$14.75

Table 2.3: National Income Accounting

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

a. \$8,900	U	1.2	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						
Consider Table 2.3.	Using th	ne Laspeyres	index, the	e real GDP i	n 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

60.

61.	Consider Table 2.3. a. \$9,150	Using t	he Paasche in	dex, the ro d.	eal GDP in 20 \$9,025	018 is:		
	b. \$8,500 c. \$8,600			e.	\$8,475			
	ANS: D MSC: Applying	DIF:	Medium	REF:	2.3	TOP:	III.C.1.	
62.	Consider Table 2.3. a. \$8,475	Using t	he Paasche in	idex, real d.	GDP in 2017 \$9,150	is:		
	c. \$8,600			e.	\$8,873			
	ANS: E MSC: Applying	DIF:	Medium	REF:	2.3	TOP:	III.C.1.	
63.	Consider Table 2.3.	Using t	he Laspeyres	index, inf	lation betwee	en 2017 a	nd 2018 was	about:
	b. 5 percentc. 1 percent			е.	Not enough	informat	ion is given.	
	ANS: B MSC: Applying	DIF:	Difficult	REF:	2.3	TOP:	III.C.1.	
64.	Consider Table 2.3. a. 6 percent	Using t	he Laspeyres	index, the d.	e percent char 1 percent	nge in rea	ll GDP was a	bout:
	b. 5 percentc. 0 percent			e.	Not enough	informat	tion is given.	
	ANS: D MSC: Applying	DIF:	Difficult	REF:	2.3	TOP:	III.C.1.	
65.	Consider Table 2.3.	Using t	he Laspeyres	index, the	e percent char	nge in no	minal GDP w	as about:
	b. 1 percentc. 6 percent			и. e.	Not enough	informat	ion is given.	
	ANS: C MSC: Applying	DIF:	Difficult	REF:	2.3	TOP:	III.C.1.	
66.	If we calculate the re	al GDF	vusing the	ir	idex, we use	the	period's	prices.
	a. Laspeyres; finalb. Paasche; finalc. Paasche; initial			а. e.	chain-weigh	ited; curr ited; fina	l	
	ANS: B MSC: Remembering	DIF:	Easy	REF:	2.3	TOP:	III.C.1.	
67.	If we calculate the reinstead, we use the f	al GDF	ousing the initiation in the initiation of the second second second second second second second second second s	itial period we are usi	l's prices, we ng a	are using index.	g a	index. If,
	a. Paasche; chain-vb. Laspeyres; chairc. Laspeyres; Paaso	veighteo 1-weigh 2he	d ted	d. e.	Paasche; La chain-weigh	ispeyres nted; Fish	ier	
	ANS: C MSC: Remembering	DIF:	Easy	REF:	2.3	TOP:	III.C.1.	

68.	The chain-weighted a. a constant base y b. a constantly cha c. a base year that d. a base year that e. None of these ar	measure year nging ba changes changes nswers a	e of real GDP u ase year every five year every ten year re correct.	ses pric rs s	es from:			
	ANS: B MSC: Rememberin	DIF: g	Easy	REF:	2.3	TOP:	III.C.3.	
69.	Suppose we calculat and the Paasche indi get 9 percent. The cl a. 1.5 percent b. 9.75 percent c. 1.33 percent	e the pe ces. Wit nain-wei	rcent change in th the Laspeyre ghted growth c	real GI s index of real C d. e.	DP from year 1 we get 12 perc 3DP is: 9.5 percent 10.5 percent	to year ent and	2 using both the Laspeyres with the Paasche index we	
	ANS: E MSC: Applying	DIF:	Medium	REF:	2.3	TOP:	III.C.3.	
70.	Nominal GDP meana. averageb. last year'sc. the base year's	s that th	e value of all g	oods an d. e.	d services is m current constant	easured	l in prices.	
	ANS: D MSC: Rememberin	DIF:	Easy	REF:	2.3	TOP:	III.C.2.	
71.	 If NGDP is nominal GDP and RGDP is real GDP, which of the following can be used to calculate inflation? a. percent change in NGDP + percent change in RGDP b. percent change in NGDP - percent change in RGDP c. percent change in NGDP × percent change in RGDP d. percent change in RGDP + percent change in NGDP e. percent change in RGDP - percent change in NGDP 							
	ANS: B MSC: Applying	DIF:	Medium	REF:	2.3	TOP:	III.C.2.	
72.	If NGDP is nominal growth of the real G a. percent change i b. percent change i c. percent change i d. percent change i e. percent change i ANS: A	GDP ar DP? n NGDI n NGDI n NGDI n $P + pe$ n $P - pe$ DIF:	nd P is the price P – percent cha P + percent cha P × percent cha ercent change in ercent change in Medium	e level, nge in <i>I</i> nge in <i>I</i> nge in <i>I</i> n NGDI n NGDI REF:	which of the for p p 2.3	ollowing TOP:	g can be used to calculate the III.C.2.	
73.	If the nominal GDP	rises by	3 percent and t	the price	e level rises by	5 perce	ent, then the real GDP	
	a. rises; 8 percent	·		d.	falls; 2 percer	nt		

- a. rises; 8 percentb. falls; 8 percent
 - e. None of these answers are correct.

	c. rises; 2 percent						
	ANS: D MSC: Applying	DIF:	Medium	REF:	2.3	TOP:	III.C.2.
74.	If the nominal GDP i	rises by	6 percent and	the price	e level rises by	y 3 perce	ent, then the real GDP
	a. falls; 3 percent			d.	falls; 9 perce	ent	
	b. rises; 9 percent			e.	None of thes	se answe	rs are correct.
	c. rises; 3 percent						
	ANS: C MSC: Applying	DIF:	Medium	REF:	2.3	TOP:	III.C.2.
75.	If the nominal GDP 1	rises by 	6 percent and	the real	GDP rises by	3 percen	t, then the price level
	a. rises; 3 percent			d.	falls; 9 perce	ent	
	b. rises; 9 percentc. falls; 3 percent			e.	There is no c	change in	n inflation.
	ANS: A MSC: Applying	DIF:	Medium	REF:	2.3	TOP:	III.C.2.
	 a. the interest rate; b. the exchange rate c. price level differ d. the exchange rate e. fiscal policy; the 	the exc e; price ences; t e; fiscal exchar	hange rate level differen the interest rat policy nge rate	ices te			
	ANS: B MSC: Analyzing	DIF:	Medium	REF:	2.4	TOP:	IV.
77.	If we want to calcula following:	te the N	Mexican real (GDP in U	.S. dollars but	adjusted	d for prices, we use the
	a. Real GDP _{MEX}	$\frac{F}{P} = \frac{F}{P}$	Price level _{U.S.} rice level _{MEX}	×Nomin	al GDP _{MEX}		
	b. Real GDP _{MEX}	$\frac{P}{P} = \frac{P}{P}$	rice level _{MEX} Price level _{US}	×Nomin	al GDP _{MEX}		
	c. Real GDP _{MEX}	$\frac{P}{P} = \frac{P}{P}$	Price level _{U.S.} rice level _{MEX}	×Nomin	al GDP _{U.S.}		
	d. Real GDP _{MEX}	$\frac{P}{P} = \frac{P}{P}$	rice level _{U.S.}	÷ Nomin	al GDP _{U.S.}		
	e. None of these an	swers a	are correct.				
	ANS: A	DIE	Medium	RFF	24	ΤΟΡ·	IV
	MSC: Applying	υп.	mountin	1.121.	~ .7	101.	
78.	If we want to calcula	te the U	J.S. real GDP	in Mexic	an pesos, we	would us	se the following:

If we want to calculate the U.S. real GDT a. Real GDP_{MEX}^{U.S. prices} = $\frac{\text{Price level}_{MEX}}{\text{Price level}_{U.S.}} \times \text{Nominal GDP}_{U.S.}$

b.	Real GDP _{MEX}	$\frac{\text{Price level}_{U.S.}}{\text{Price level}_{MEX}} \times \text{Nominal GDP}_{U.S.}$	
c.	Real GDP _{MEX}	$\frac{\text{Price level}_{\text{U.S.}}}{\text{Price level}_{\text{MEX}}} \div \text{Nominal GDP}_{\text{U.S.}}$	
d.	Real GDP _{MEX}	$\frac{\text{Price level}_{\text{MEX}}}{\text{Price level}_{\text{U.S.}}} \div \text{Nominal GDP}_{\text{U.S.}}$	
e.	None of these an	iswers are correct.	
AN MS	IS: B SC: Applying	DIF: Medium REF: 2.4	TOP: IV.

79. Define $E = \frac{1}{2}$ as the dollar/pound exchange rate and NGDP_{UK} as the United Kingdom's nominal GDP; then NGDP^{US.}_{UK}, the United Kingdom's nominal GDP in dollars, is given by:

a.	$E = \text{NGDP}_{\text{UK}} \times h$	4GDP ^U	UK	d.	NGDP ^U	$_{\text{UK}}^{S.} = E \times \text{NGDP}_{\text{UK}}$	
b.	$NGDP^{US.}_{UK} = E \div NGDP_{UK}$			e.	None of these answer are correct.		
c.	$\mathrm{NGDP}_{\mathrm{UK}} = E \times I$	NGDP	US. UK				
AN MS	S: D C: Applying	DIF:	Medium	REF:	2.4	TOP: IV.	

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

Table 2.4: U.S. and Eurozone Nominal GDP in 2011

	2011
Eurozone nominal GDP (€ billions)	€13,144
U.S. nominal GDP (\$ billions)	\$15,100
Dollar/euro exchange rate	\$1.28/€1
P_{EZ}/P_{US}	0.96

80. Consider the data in Table 2.4. The value of Eurozone nominal GDP in U.S. dollars is:

a. \$15,729 billion			d.	\$10,269	billion
b. \$11,797 billion			e.	\$17,525	billion
c. \$16,824 billion					
ANS: C MSC: Applying	DIF:	Medium	REF:	2.4	TOP: IV.

81. Consider the data in Table 2.4. The value of the Eurozone nominal GDP in U.S. dollars adjusted for price differences is:

a. \$18,555 billion			d.	\$17,52	25 billion	
b. \$9,858 billion			e.	\$16,15	51 billion	
c. \$10,697 billion						
ANS: E MSC: Applying	DIF:	Medium	REF:	2.4	TOP:	IV.

82. Consider the data in Table 2.4. When we convert the Eurozone's nominal GDP into dollars and adjust for price differences, the U.S. economy is about ______ times ______ than the Eurozone economy.
a. 0.93: smaller
d. 0.61: smaller

u .	0.95, sinanci	u.	0.01, smane
b.	1.07; smaller	e.	1.09; bigger

	c. 1.4	47; bigger						
	ANS: MSC:	B Analyzing	DIF:	Difficult	REF:	2.4	TOP:	IV.
83.	Consid NOT a Eurozo a. 1.1 b. 1.6 c. 1.1	der the data in 7 adjust for price one economy. 15; smaller 64; smaller 15; bigger	Table 2 differe	.4. When we connces, the U.S. e	onvert tl conom d. e.	he Eurozone's r y is about 1.11; smaller 1.09; bigger	nomina ti	l GDP into dollars but do mes than the
	ANS: MSC:	D Applying	DIF:	Difficult	REF:	2.4	TOP:	IV.
TRU	E/FALS	SE .						
1.	The la	rgest GDP exp	enditure	e share historica	ally has	been governm	ent exp	enditure.
	ANS: MSC:	F Understanding	DIF:	Easy	REF: NOT:	2.2 It is consumpt	TOP: ion exp	I. Denditure.
2.	In 201	2, consumption	ı expen	ditures account	ed for o	over 70 percent	of the	total GDP.
	ANS: MSC:	T Remembering	DIF:	Easy	REF:	2.2	TOP:	I.
3.	The va	lue added for a ediate goods u	a good j sed to p	produced is equation of the second se	al to th put.	e value of the f	ĩrm's o	utput <i>plus</i> the value of the
	ANS: MSC: NOT: produc	F Understanding It is equal to the that output.	DIF: g he valu	Medium e of the firm's o	REF:	2.2 ninus the value	TOP: of the	II.
4.	Accore resider	ding to the exponential housing.	enditure	e approach to G	DP, ho	usehold expend	ditures	include purchases of
	ANS: MSC: NOT:	F Remembering Residential ho	DIF:	Medium s included in in	REF: vestme	2.2 nt expenditures	TOP:	II.B.
5.	The la	rgest share of h	ouseho	ld consumption	n expen	ditures is durab	ole good	ls.
	ANS: MSC:	F Remembering	DIF:	Medium	REF: NOT:	2.2 It is services.	TOP:	II.B.
6.	Accore resider	ding to the exponential housing.	enditure	e approach to G	DP, in	vestment expen	ditures	include purchases of

ANS: T DIF: Medium REF: 2.2 TOP: II.B. MSC: Remembering

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

	ANS: T MSC: Remembering	DIF:	Easy	REF:	2.2	TOP:	II.C.		
8.	According to the income approach to GDP, the largest portion of GDP is net operating surplus.								
	ANS: F MSC: Remembering	DIF:	Easy	REF: NOT:	2.2 It is compensa	TOP: tion to	II.C. employees.		
9.	In the income approace	ch to G	DP, fixed capit	al depre	eciation is defir	ned as th	he after-tax profits of a firm.		
	ANS: F MSC: Remembering NOT: It is the decline	DIF: e in the	Easy	REF:	2.2 o wear and tear	TOP:	II.C.		
10.	GDP measures <i>all</i> eco	onomic	activity.			•			
	ANS: F MSC: Understanding	DIF:	Medium	REF: NOT:	2.2 It measures on	TOP: ily marl	II.D. ket activity.		
11.	When you cook yours GDP.	self din	ner, you are co	ntributi	ng to economic	activit	y, but it is not measured in		
	ANS: T MSC: Analyzing	DIF:	Medium	REF:	2.2	TOP:	II.D.		
12.	When you buy a car f GDP.	rom yo	our brother, whi	ch he b	ought new in 2	000, the	e purchase adds to current		
	ANS: F MSC: Analyzing	DIF: NOT:	Medium It added to 20	REF: 00's GI	2.2 DP.	TOP:	II.E.		
13.	GDP often is used as economic wellbeing.	a "mea	sure" of econor	mic we	lfare; it include	s all fac	etors that contribute to		
	ANS: F MSC: Analyzing	DIF:	Medium	REF:	2.2	TOP:	III.A.		
	NOT: It does not incl degradation.	lude co	sts like pollutio	on, crim	ne, depletion of	resourc	ces, and environmental		
14.	If the percent change shrinks.	in price	es is greater tha	n the p	ercent change in	n the no	ominal GDP, the real GDP		
	ANS: T MSC: Applying	DIF:	Medium	REF:	2.3	TOP:	III.C.2.		
15.	If the percent change rises.	in price	es is greater tha	n the p	ercent change in	n the no	ominal GDP, the real GDP		
	ANS: F MSC: Applying	DIF:	Medium	REF:	2.2	TOP:	III.C.2.		
16.	When calculating the	real Gl	DP using the La	aspeyre	s index, we use	the fin	al period's prices.		

ANS:	F	DIF:	Easy	REF:	2.3	TOP:	III.C.1.
MSC:	Remembering			NOT:	We use the in	itial per	iod's prices.

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

ANS:	Т	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: FDIF: MediumREF: 2.3TOP: III.C.3.MSC: ApplyingNOT: 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: FDIF: MediumREF: 2.4TOP: IV.MSC: UnderstandingNOT: 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:	Т	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 <i>Y</i>	100	105	103
Quantity of <i>X</i>	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:

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

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.

							PPP Per
					Per Capita		Capita
		Exchange		GDP	GDP National	Per Capita	GDP
	Pop	Rate	$P_{US}/P_i \\$	(millions)	Currency	GDP (\$s)	(\$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	—	_	_

Table GDP, Population, and Exchange Rate Data in 2010

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 _{US} /P _i	GDP (millions)	Per Capita GDP National Currency	PCGDP (\$s)	PPPPC GDP (\$s)
	А	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	