## Sample Midterm 1

This sample exam is not a study guide. It is just a sample of the type of questions you will find on the exam. Just knowing the answers to these questions is not enough preparation for the test. To truly prepare for the exam, you should: read textbook chapters 1 through 6, review your lecture notes, and review all homework assignments 1 -4 and problems solved in class. Any problem solved in class or asked in a homework assignment is a fair question on the exam.

MULTIPLE CHOICE. Choose the one alternative that best	completes the stat	tement or answers the que	stion.
1) In economics, scarcity refers to the situation of:			1)
A) optimizing with the use of limited information	on.		
B) having more wants than the amount of avail	able resources.		
C) sellers setting the prices of their products too	high for people to	be able to afford them.	
D) rationing of available goods and services by	the government.		
2) Which of the following correctly defines the term '	"equilibrium"?		2)
A) It refers to a situation where all agents are sit	multaneously optir	nizing.	
B) It refers to government intervention that efficient	ciently allocates sca	arce resources.	
C) It refers to an optimizing decision made by a	n individual econo	omic agent.	
D) It refers to analysis that uses data to arrive at	t conclusions.		
3) A student has two options: she can either surf the her \$20 per hour. What is the student's opportunit A) \$100 B) \$20	•	9.1	oays 3)
Maria has to choose between driving and taking a train to de hours. Driving to destination A takes 6 hours, and the requir \$15 per hour.			
4) Refer to the scenario above. To optimize, Maria sh	ould choose to:		4)
A) drive, as it will save her \$120.			
B) travel by train, because it is quicker.			
C) travel by train, as it will save her \$30 in trave			
D) drive, as it will give her a real saving of \$150			
5) Empiricism refers to the process of:			5)
A) making choices using values and beliefs.	B) measuring	variables.	

6) Which of the following statements identifies a difference between correlation and causation? A) Correlation occurs when one thing directly affects another, whereas causation implies a mutual relationship between two things.

C) collecting and organizing data.

B) Causation cannot arise when correlation is present, and correlation cannot arise when causation is present.

C) A causal relationship exists between two variables when they are correlated, but correlation does not necessarily exist if there's a causal relationship between two variables.

D) testing ideas using data.

6)

D) Correlation implies a mutual relationship between two things, whereas causation occurs when one thing directly affects another.

A) chance, r B) choice, r C) chance, r	n is the assignment of subjects rather than by choice; treatmen ather than by chance; treatmen rather than by choice; treatmen ather than by chance; treatmen	t group or into a test gro t group or into a control t group or into a control	oup. group. group.	7)
a benefit of \$8 A) The net	, which of the following statem benefit of Project A is \$5.	ents is true?	B has a cost of \$ 5 and provides	8)
	rom Project A to Project B incre		1.	
· ·	vidual can optimize by choosing	0 ,		
D) Project A	A has a higher net benefit than l	Project B.		
Sarah has to choose betw	veen renting a hotel room for tw	wo days and renting a ho	otel room for three days.	
*	enario above. If Sarah is optim	izing in differences, ther	n which of the following	9)
statements is t				
	mizer will rent the hotel room for	-	fit of staying for the third day	
	the benefits of staying for the fi nizer will rent the hotel room f	-	fit of staying for the third day	
	the cost of staying for the third	-	in or staying for the third day	
		•	enefit of staying for three days	
	the net benefit of staying for tw	2	chefit of staying for timee days	
			of staying for the first two days	
	an the cost of staying for the th		, ,	
	ken to transport the product fr	-	rent of the factory in the four diff market is shown in the table belo	
	Monthly Commuting Time			
Factory Location	(hours)	Monthly Rent (\$)		
Very Far	30	2,060		
Far	25	2,100		
Close	15	2 300		

Very Close	5	2,500		
,	ple above. Which is the optime		1 2	10)
A) Close	B) Very Far	C) Very Close	D) Far	
11) Which of the fo	ollowing statements is correct	about the concept of will	ingness to pay?	11)
A) The willi	ngness to pay is the lowest pr	ice that a buyer is willing	to pay for an extra unit of a	
commod	ity.			

- B) The willingness to pay for a commodity increases exponentially as the consumption of the commodity increases.
- C) The willingness to pay for a commodity decreases as the amount consumed of the commodity increases.
- D) The willingness to pay for a commodity increases linearly as the consumption of the commodity increases.

The following table shows the demand schedules of three consumers of wine. Assume that these three buyers constitute the entire market.

Price	Sandra's Demand	David's Demand	Mary's Demand
(\$/Bottle)	(Bottles)	(Bottles)	(Bottles)
\$8	2		10
\$6	14	15	18
\$4		23	24
\$2	24	27	28

12) Refer to the table above. If the market price of wine is \$8/bottle, and the market demand for wine is			12)	
19 bottles, David's consump	otion of wine is:			
A) 7 bottles.	B) 4 bottles.	C) 9 bottles.	D) 12 bottles.	
13) Two goods are said to be su		1		13)
A) doesn't affect the dem	_			
B) leads to a right shift in		e		
C) leads to a rise in the p	0			
D) leads to a left shift in t	the demand for the o	other good.		
14) Assume that the economy i	s in a recession and	consumers are expecting a	fall in their income	14)
levels. This will cause a(n):				
A) increase in the total qu	uantity demanded o	f all inferior goods.		
B) decrease in the total q	uantity demanded o	of all normal goods.		
C) right shift in the mark	et demand for all no	ormal goods.		
D) left shift in the market	demand for all nor	rmal goods.		
1E) Miles of the following is li	ralm to load to an in-	mana in the arrantity arran	aliand at atom 12	15)
15) Which of the following is li A) A rise in the market p	•	crease in the quantity supp	med of steer?	15)
B) A fall in the wage rate		in the steel industry		
		due to technological innov	ration	
D) An expected increase			ation	
D) The expected mercuse	in the demand for 50	eer in the fatare		
16) Assume that a worker in a t	echnology firm can	produce 3 circuit boards in	n an hour. Due to	16)
subsequent innovation, he i		-		,
the same, the firm's supply	•	•		
A) shift to the right.	•	B) remain unchang	ged.	
C) become steeper.		D) shift to the left.		

The following table shows the market demand schedule and supply schedule for notebooks.

Price (\$/unit)	Quantity Demanded (units)	Quantity Supplied (units)
1	20	4
2	16	6
3	14	10
4	12	12
5	10	14
6	7	17
7	4	20
8	2	22
9	1	25

17) Refer to the table above. What is the equilibrium price of notebooks?			17)
A) \$2 B) \$7	C) \$6	D) \$4	
			10)
18) If the demand and supply curves for a commodity			18)
greater than the shift in supply, then in compariso will be characterized by:	on to the initial equilib	rium, the new equilibrium	
A) a higher price and a lower quantity.	B) a higher price	and quantity.	
C) the same price and quantity.	D) a lower price a	and quantity.	
19) Z is a normal good. The equilibrium price and qu	2		19)
respectively. In 2014, the equilibrium price of Z ha		1 1	
had decreased to 50 units. Other things remaining	g the same, which of th	ne following could explain	
this change?			
A) Shift of the supply curve of <i>Z</i> to the right			
B) Shift of the demand curve for Z to the right			
C) Shift of the supply curve of Z to the left D) Shift of the demand curve for Z to the left			
b) Shift of the definated curve for 2 to the left			
20) The market demand for hamburgers is given by	7 Od-50-2P The mark	et supply of of hamburgers	20)
is given by Qs= 5P-6. The equilibrium price and			20)
A) P*=8, Q*=34 B) P*=9, Q*=32	C) P*=10, Q*=30	D) P*=12, Q*=26	
, , , , , , , , , , , , , , , , , , , ,	, , ~	, , ~	
21) Which of the following is likely to be included in	a country's Gross Don	nestic Product in a	21)
particular year?	•		
A) The total amount of flour used by bakeries t	o make bread in that y	vear	
B) An unused stock of goods produced in the p	previous year		
C) An unsold inventory of automobiles produc	2		
D) The total amount steel used in the production	on of automobiles in th	aat year	
22) Which of the following will be included in the cal	culation of gross dome	estic product using the	22)
expenditure method?	D) I.a. (	1 1 1. 1	
A) Services purchased by the government	, 1	by households for loans	
C) Dividends paid by firms to shareholders	D) Wages paid to	labor by firms	

	investment was \$16,0	roduct of Ritzland during 00, the expenditure incurr and the value of imports w	ed by the government was		23)
	consumption.	•		•	
	A) \$44,000	B) \$37,500	C) \$19,000	D) \$81,000	
	A) A consumer's ex	g will be included in the in		national accounting?	24)
		enditure on education			
	C) A worker's retir				
	D) A firm's expend	iture on raw materials			
Corp	Corp. is a leading manufact b. \$10 billion of this sale con b of its revenue to Infi Corp.	nes from a leading retailer	while the remaining buy		
	25) Refer to the scenario a A) \$3 billion	above. The retailer adds a B) \$10 billion	value of to the p C) \$1 billion	roduction process. D) \$5 billion	25)
	foreign countries during production within the following is likely to large A) The GDP of the B) The GDP of the C) The GDP of the D) The GDP of the	country is lower than its C country equals its GNP. country is higher than its country equals its trade ba	51,000 and the production uring that year was worth GNP. GNP. alance.	n of foreign factors of \$80,000. Which of the	26)
Γhe	untry produces only one go price of each unit of the goo calculation of GDP.	-	-	_	
	27) Refer to the scenario	above. The real GDP of the	e country in Vear 2 was		27)
	A) \$1,420,000	B) \$1,680,000	C) \$32,000,000	 D) \$240,000	<u> </u>
	28) Refer to the scenario	above. The nominal GDP o			28)
	A) \$1,920,000	B) \$2,510,000	C) \$174,000	D) \$180,000	
		ndex for a country in Year tween the two years is app		t was 133. The inflation	29)
	A) 2.2 percent	B) 6 percent	C) 3.1 percent	D) 4 percent	
	•	d a sum of \$30,000 in 1990. the value of the money he	_	_	30)
	A) \$48,000	B) \$38,800	C) \$56,400	D) \$45,200	
		roduct of a small country v		200,000 is \$56,000,000.	31)
		a of the country is			
	A) \$50	B) \$200	C) \$280	D) \$100	

The price of an Apple Watch Series 3 GPS + Cellular in the U.S. is \$399. The table below lists the income per capita and prices same Apple Watch in four different countries in 2017 in their own currencies. Using the Apple Watch as a representative commodity common to the countries, you can calculate the purchasing power parity (PPP)-adjustment factor for each country, and then the PPP adjusted level of GDP per capita in each country

Country	GDP per capita	Apple Watch Price
1	15,600 units of local currency	999 units of local currency
2	34,500 units of local currency	2,300 units of local currency
3	22,670 units of local currency	10,500 units of local currency
4	20,000 units of local currency	1,900 units of local currency

32) Refer to the scenario above. Which country has the highest income per capita in PPP adjusted dollars?

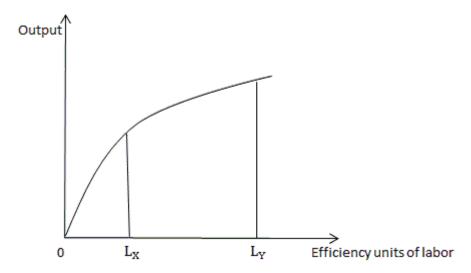
32) \_\_\_\_\_

- A) Country 1
- B) Country 2
- C) Country 3
- D) Country 4
- 33) The income per capita and population of two neighboring countries for a particular year were equal. However, Country 1 had a higher income per worker than Country 2. Which of the following is likely to be true?

33) \_\_\_\_\_

- A) The number of people employed is higher in Country 2 than in Country 1.
- B) The number of people unemployed is lower in Country 1 than in Country 2.
- C) The number of retired people is higher in Country 2 than in Country 1.
- D) The number of children aged below 15 is higher in Country 2 than in Country 1.

Country X and Country Y have identical aggregate production functions as shown below. The amount of capital stock available to each country is also equal. However, Country X has  $L_X$  amount of labor supply while Country Y has  $L_Y$  amount of labor supply.



34) Refer to the figure above. What does the slope of the aggregate production function imply?

34) \_\_\_\_\_

- A) Diminishing marginal product of labor
- B) Increasing returns to scale
- C) Diminishing marginal product of capital
- D) Decreasing returns to scale

35) Suppose a country's labor si	upply increases in a	year while its capital stock	remains constant. Which	35)
of the following is likely to				
units of labor?	main constant	P) Its total autout v	will increase	
<ul><li>A) Its total output will re</li><li>C) Its total output will de</li></ul>		B) Its total output v D) Its output per ca		
C) its total output will de	ecrease.	D) its output per ca	pita wili decrease.	
36) Laborland has 1 million wo	rkers. Suppose 50,00	00 workers migrate from a	neighboring country to	36)
join Laborland's work force stock remains unchanged?	. Which of the follow	ving will happen in this ca	se if Laborland's capital	
A) The total efficiency un	its of labor in the eco	onomy will decrease.		
_		tal stock becomes negative	•	
C) The country's income	-			
D) The marginal contribu	ition of labor to Labo	orland's output will fall.		
37) In a graph with aggregate o	output in the Y-axis a	and human capital in the X	(-axis, which of the	37)
following will result in an u	pward shift of the ag	ggregate production funct	ion?	
A) An increase in the agg	regate price level in	the economy		
B) An increase in the rate		-		
_	-	covery of an advanced tech	nnology	
D) An increase in the nur	nber of educated peo	ople in the economy		
38) The aggregate production for	unction of an econor	my shifts upward when	produce a higher	38)
output.				
A) the same amount of ca	-			
B) the same amount of ca	-			
<ul><li>C) the same amount of la</li><li>D) none of the above</li></ul>	bor and a higher am	ount of capital		
D) Holle of the above				
39) In the year 2010, the income	•		-	39)
worker in South Korea was		-	0.	
were at US level would be \$	_		p between the US and	
South Korea can be explaine	· · · · · · · · · · · · · · · · · · ·			
A) \$28,044	B) \$20,181	C) \$7,863	D) \$4,315	
40) In the year 2010, the income	e per worker in the U	Jnited States was \$82,359 a	nd the income per	40)
worker in South Korea was	_		_	,
were at US level would be \$		•		
South Korea can be explaine	_		-	
A) \$7,863	B) \$20,181	C) \$4,315	D) \$28,044	