

Test Version _____A____

Name _____

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Exam 1 contains 23 multiple choice questions which should be answered on both the scantron and the test. Questions 24-26 are math/graphing questions which can only be answered on the test. For the multiple choice questions, the answers you write on the scantron will be considered the official answers.

Make absolutely sure to write your name on this test booklet and the scantron sheet.

Make absolutely sure that under "course number" on the scantron sheet you write in the correct version corresponding to the test version you receive <u>Test Version Course Number</u> Test Version A - 1111Test Version B - 1112Test Version C - 1113Test Version D - 1114



(1) Within the field of e	conomics,	_ regards the psychology of humans and its	
consequences for economic questions, while		studies how to mitigate pollution at	
low economic cost.			
(a) microeconomics, macroeconomics	(c) microeconomics, environmental economics	(e) psycho-economics environmental economics	
(b) behavioral economics, environmental economics	(d) agricultural economics, macroeconomics		

- (2) Which of the following are valid criteria for judging economic models?
- (a) ability of a model to predict accurately
- (b) ability of a model to reflect most of the details and complexities of the world
- (c) usefulness of a model in addressing the economic question
- (d) the consequences of the model for political considerations

(a) a,b,c,d	(c) a,c	(e) a,b,d
(b) a,b,c	d) b,d	

(3) The Federal Reserve decides to print money and give it to people. This will cause the ______ price of all goods and services to ______.

- (a) nominal, rise(b) real, rise(c) nominal, fall(e) nominal and real, rise(d) real, fall
- (4) The U.S. and most of the world uses ______money as a medium of exchange.
- (a) fiat (c) paperesq

(e) economal

(b) commodity (d) photol



(5) Suppose that nominal wages rise 7% while the inflation rate is 4%. How did real wages change?

(a) real wages fell 3%	(c) real wages fell 11%	(e) real wages rose 7%

(b) real wages rose 11% (d) real wages rose 3%

(6) Why did the buffalo almost go extinct as Europeans settled the U.S. but the cow did not?

(a) all buffalo were worth more	(c) cattle met the <i>homo economo</i>	(e) cattle were owned but
dead than alive, but not cattle	criteria for investment but	buffalo were not
buffalo did not		
(b) buffalo could only live in the (d) the white men wanted to get		
great plains while cattle could the buffalo before the Indian		
live everywhere could		

(7) A prison uses cigarettes as money. The price of a Coke is 3 cigarettes and the price of a sardine can is 15 cigarettes. What is the real price of sardine can?

(a) 15 cigarettes, this is a trick question	(c) 5 Cokes	(e) 5 sardine cans
(b) 3/15 = 0.2 Cokes	(d) 3/15 = 0.2 sardine cans	

(8) The nominal interest rate equals

(a) (real interest rate)(1 - inflation rate) - (inflation rate)	(c) (real interest rate)(1 - expected inflation rate) - (expected inflation rate)
(b) (real interest rate)(1 + inflation rate) + (inflation rate)	(d) (real interest rate)(1 + expected inflation rate) + (expected inflation rate)



(9) A bank lends a borrower money at a 15% nominal interest rate. The inflation rate during the period the money is lent is 5%. The real interest rate is then...

(a) 10%	(c) 19.05%	(e) 20%
(b) 9.52%	(d) 20.75%	

(10) A bank lends a borrower money at a 15% nominal interest rate. The inflation rate during the time the money was lent ends up being lower than was expected. How does this unexpected low inflation impact lenders and borrowers?

(a) lenders benefit	(c) lenders benefit	(e) neither lenders nor
borrowers hurt	borrowers benefit	borrowers are affected
(b) lenders hurt	(d) lenders hurt	
borrowers benefit	borrowers hurt	

(11) A farmer can make \$150, \$130, and \$120 dollars in profits for each acre of soybeans, cotton, and peanuts produced. If the profits from growing peanuts rises to \$125, how does the opportunity cost of growing soybeans change?

(a) increases to \$125	(c) decreases by \$5	(e) opportunity cost does not change
(b) increases to (\$130 + \$125) / 2 = 127.5	(d) increases by \$5	Change

(12) Growing obesity in the U.S. appears to be caused by

(a) falling opportunity
(b) falling opportunity
(c) falling opportunity costs
(d) falling opportunity costs
(e) none of the above of snacking
(d) falling opportunity costs
(e) none of the above of snacking

restaurants, which have fattier food



(13) You are considering spending \$100,000 today for an investment that pays \$115,000 in three years. Using a discount rate of 5%, is this a good investment?

(a) No, because the	(c) Yes, the rule of 5% ensures	(e) No, the rule of 5% ensures
present value of	that the present value of	that the present value of
\$115,000 in three years	\$115,000 in three years is	\$115,000 in three years is
is \$99,341, which is less	\$115,000(1-0.05)= \$109,250	\$115,000(1-3*0.05)= \$97,750
than \$100,000		

(b) Yes, because the	(d) Yes, the rule of 5% ensures
present value of	that the present value of
\$115,000 in three years	\$115,000 in three years is
is \$102,341, which is	\$115,000(1-2*0.05)= \$103,500
more than \$100,000	

(14) What is the scientific definition of "value"?

(a) there is no scientific definition of value	(c) the happiness people extract from a good or service measured using the monetary-happiness scale
(b) the amount of money people would pay for something, if unconstrained by income	(d) the maximum amount of money people will and can pay for something

(15) What is marginal opportunity cost?

(a) the accounting cost	(c) the average accounting
of producing one	cost of all units produced
additional unit	

(b) the opportunity cost (d) the average opportunity of producing one cost of all units produced additional unit



- (16) If firms receive a higher price for their product,
- (a) producer surplus will rise (c) producer surplus will be unchanged
- (b) producer surplus will fall

(17) If fixed costs for a firm increase, the optimal quantity to produce and sell at any given price will

(a) rise (c) not change

(b) fall (d) depend on the degree of fixed cost increase

(18) Whether an individual firm or all firms in an industry, producer surplus measures...

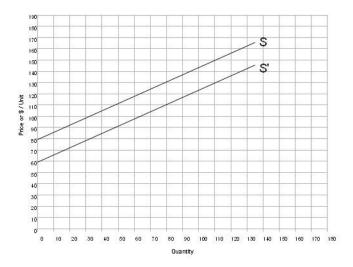
(a) total revenues minus total variable costs	(c) total profits minus fixed costs
(b) total revenues minus total variable and total fixed costs	(d) total revenues minus total fixed costs

(19) If the price is greater than the equilibrium price?

(a) the market will still be in	(c) producers will want to sell	(e) consumers will want to purchase
equilibrium, and price will not	more than consumers will want	more than producers will want to
change	to purchase, thus, price will fall	sell, thus, price will rise
(b) consumers will want to purchase more than producers will want to sell, thus, price will fall	(d) consumers will want to purchase more than producers will want to sell, thus, price will rise	



(20) Below is a diagram showing an old supply curve S and a new supply curve S'. Which set of statements accurately describes this change? Select the ONE correct answer.



(a) marginal costs increase for every unit producers produce more at any given price

(c) marginal costs decrease for every unit producers produce less at any given price

(b) marginal costs decrease for every unit producers produce more at any given price

(d) marginal costs increase for every unit producers produce less at any given price

(21) Which of the following could be a cause of the supply curve shift shown in Question 20? Assume that the supply curve refers to the supply of cotton.

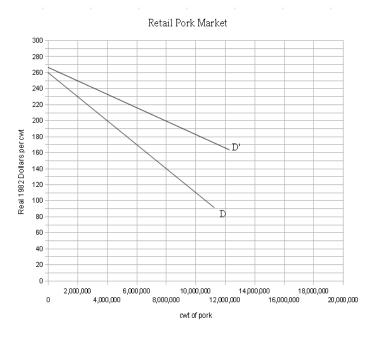
(a) price of cotton falls

(b) price of cotton rises

(c) increase in the cost of fertilizer(d) decrease in the price of soybeans



(22) Below is a diagram showing an old demand curve D and a new demand curve D'. Which set of statements accurately describes this change? Select the ONE correct answer.



(a) marginal value decreases for every unit consumers will purchase more at any given price

(c) marginal value increases for every unit consumers will purchase more at any given price

(b) marginal value increases for every unit consumers will purchase less at any given price (d) marginal value decreases for every unit consumers will purchase less at any given price

(23) Suppose that the demand curve in Question 23 refers to the demand for pork. Which of the following could be a cause for the demand curve shift in Question 21?

(a) price of pork falls	(c) decrease in fertilizer costs, for fertilizer used to grow the corn that is fed to the pigs
(b) a major recession hits, leaving people with much less money than before	(d) increase in price of beef



Math Questions - Do Not Use Scantron Sheets For This Section

(24) *[Worth 3 Points]* The table below illustrates the rate at which a particular species of tree will grow if allowed to age. Assume that each ton of wood harvested yields a profit of \$0.5 per acre. Also assume that money may be invested safely at an interest rate of 15%. Fill in ALL the shaded cells below with the proper numerical value, and then indicate the optimal harvest age for the tree stand.

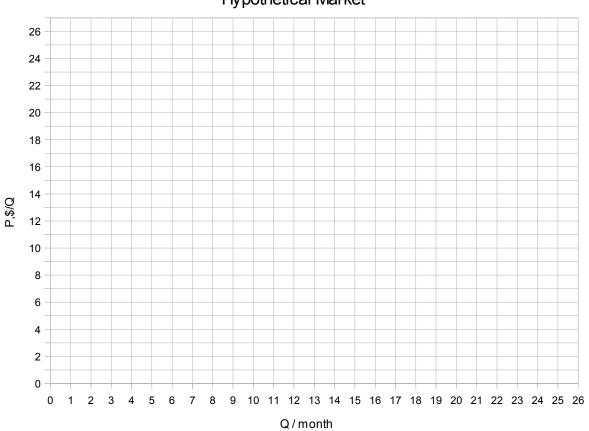
•	Tons Per Acre	Accounting Profits		Opportunity cost of
Years	Harvested From	If Harvested	accounting profits	
	Stand))	investment return
	2 0 0 0		year to harvest	
28	3,000			
	2 - 2 - 2			
29	3,700			
2.0				
30	4,000			
2.1				
31	4,200			
32	4,250			

The optimal age to harvest the tree stand is ______ years.



(25) *[Worth 3 Points]* Below is a supply and demand curve for a hypothetical good. Plot both curves in the figure below using bold and solid lines. Then, indicate the market equilibrium price and quantity using dotted lines and denoting the equilibrium price and quantity as P^E and Q^E, respectively. Your lines and equilibrium points do not have to be perfectly precise, just close enough that you communicate to us that you know how to graph equations.

Supply: P = 2 + 1.2(Q)Demand: P = 22 - 1.3(Q)



Hypothetical Market



(26) *[Worth 4 Points]* Using the supply and demand equations in Question 25, I want you to calculate the precise equilibrium price and quantity, using algebra, and to calculate the exact consumer and producer surplus at this equilibrium. Use exactly two decimal places always.

The equilibrium quantity is	units.
The equilibrium price is \$	per unit.
Consumer Surplus is \$	per
Producer Surplus is \$	per