Birzeit University Economic Department

Geographic and a second se

Economics 3311 ---- Intermediate Microeconomics I

2nd semester 2011/2012

\$6962CA092CA19554725687655766

Sana' Sous Atari

CONTRACTOR CONTRACTOR CONTRACTOR AND

First Exam

Student Name: <u>Seleen <</u>	Sam	han
----------------------------------	-----	-----

9*166666*7667

ine concentration

Student No. 1080323

INSTRUCTIONS:

- 1. The exam lasts 1.5 hour.
- 2. The exam is worth 100 points in total: 60 points for the three analytical questions, and 40 points for the multiple choice.
- Write your answers to Part A (the multiple choice section) in the blanks on page 1. YOU WON'T GET CREDIT FOR CIRCLED ANSWERS IN THE MULTIPLE CHOICE SECTION
- 4. Place all of your answers for part B in the spaces provided



Part A: The Multiple Choice Section(40 points 2 points each).

Please, circle the correct answer for each of the following 20 multiple-choice questions. For each question, only one of the answers is correct.

1-Suppose two goods coffee and creamer provide the consumer with utility but only if they are consumed in fixed proportions. An increase in the price of coffee will yield

a. a substitution effect and an income effect in opposite directions. 5.5 P.T Qdxy Qdv \downarrow \overrightarrow{b} a substitution effect and an income effect in the same direction. 5.5 P.T P.W Qdv

pet ader adpr S.t c. a substitution effect but no income effect. POT

an income effect but no substitution effect.

2-Suppose there are two goods (X and Y). On a traditional graph of a budget line a tripling of all prices and incomes will

- alter the slope of the budget line only. a.
- alter the slope of the budget line as well as the Y-intercept. b.

alter the slope of the budget line as well as the X-intercept. с.

P.T Qd

 leave the budget line unaltered. ₹.£

3-If a good is Giffen and its price increases,

a. I the income effect will be positive and the substitution effect will be positive.

b. The income effect will be negative and the substitution effect will be negative.

P.A

PAT

QXY QY

c. the income effect will be positive and the substitution effect will be negative.

d. the income effect will be negative and the substitution effect will be positive. (ionijit.

4-Suppose $U = \min(X, Y)$ and the price of X is 1, the price of Y is 1 and income is \$12. If the price of X increases to 2, the substitution effect is

a. 2	12=		2
b1			and the second s
c.) 0		$P_{X}? \rightarrow Q_{Y}?$	
d4			6 2

5-The relationship between changes in income and purchase of a good indicates

- a. whether the good is a luxury or necessity.
- b. whether the good is normal or inferior.
- c. whether the good is a complement or substitute.
- (d) Both a and b.

6-Consider the two statements:

- I. X is an inferior good.
- II. X exhibits Giffen's Paradox.

Which of the following is true?

(a)) I implies II, but II does not necessarily imply I.

b. II implies I, but I does not necessarily imply II.

c. I and II are statements of the same phenomenon.

7-Suppose demand can be written as PQ = 1000. The price elasticity of demand is)

- a. increasing as price rises.
- b. decreasing as price rises.
- c. constant regardless of prices and perfectly elastic.

d.) constant regardless of prices and unit elastic.

8-Suppose demand can be written as P = 5. The elasticity of demand is)

- a. increasing as price rises.
- b. decreasing as price rises.



- d. constant regardless of prices and unit elastic.
- 9- The price elasticity of demand for a linear demand curve follows the pattern (moving from high prices to low prices)

a.) elastic, unit elastic, inelastic.

b. unit elastic, inelastic, elastic.
c. inelastic, unit elastic, elastic.
d. elastic, inelastic, unit elastic.

 m .	

- 10-If a consumer purchases only two goods (X and Y) and the demand for X is elastic, then a rise in the price of X
 - $P_{x}7 = P_{1}Q$

Struk

- a. will cause total spending on good Y to rise.
- (b.) will cause total spending on good Y to fall.
- c. will cause total spending on good Y to remain unchanged.
- d. will have an indeterminate effect on total spending on good Y.
- 11-Suppose an individual's MRS (of steak for beer) is 2:1. That is, at the current consumption choices he or she is willing to give up 2 beers to get an extra steak. Suppose also that the price of a steak is \$1 and a beer is 25¢. Then in order to increase utility the individual should

Px Px

- a. buy more steak and less beer.
- b.) buy more beer and less steak.
- c. continue with current consumption plans.
- d. Not enough information to answer the question.

12-An increase in an individual's income without changing relative prices will

a. rotate the budget constraint about the X-axis.

b. shift the indifference curves outward.

c.) shift the budget constraint outward in a parallel way.

- d. rotate the budget constraint about the Y axis.
- 13-Suppose a cup of coffee at the campus coffee shop is \$2.50 and a cup of hot tea is \$1.25. Suppose a student's beverage budget is \$20 per week. What is the most cups of tea the student could buy?



14-Suppose a little girl likes peanut butter and jelly sandwiches with exactly 2T of jelly and 1T of peanut butter. Suppose further that her mom agrees to make sandwiches to those exact specifications and the price of peanut butter is \$.25/T and the price of jelly is \$.10/T. If she has \$1.8 to spend on peanut butter and jelly ingredients (ignore the bread) in a week, how many sandwiches will she make?

$$1.8 = 0.1J + 0.2SP = 2.5 IP = 2.5$$

= 0.1J + 0.2S(2J) 0.1 0.2S
$$1.8 = 0.1J + 0.5J = 0.1 P = 2.5 = 6$$

$$T = 3$$

- a. 1
- b. 2
- c. 4
- d. 8

×

15-Suppose a teenager likes both rap music (R) and country music (C) with a set of preferences so that $U = C^{1/2}R^{1/2}$. Which point (C, R) makes the teen the happiest?

- a. 9,16 b. 36,1
- c. 49,4
- d. 100,0

16-Suppose a production possibilities frontier can be expressed as $9X^2 + Y^2 = 81$ what is the opportunity cost of going from 2 units of X to 3 units of X (in terms of units of Y)?

c. 1

d. 0

a.	172			
(b.)	√45			



 $q_{X}q_{+} y^{2} = \delta'$ $y^{2} = 6.71$

17-The Ricardian notion that of diminishing returns implies that

- a. as more input is used more output will be made.
- b. as more input is used less output will be made.
- c. as more input is used the increase in output will increase.
- (d.) as more input is used the increase in output will decrease.

18- If a person's indifference curves can be represented as a straight line, the person views the goods as

- a.) perfect substitutes
- Б. perfect complements
- c. complements (but not perfect)
- d. substitutes (but not perfect)

19-The slope of the production possibility frontier shows

- a. how inputs must be changed to keep them fully employed.
- b. the technically efficient combinations of the two goods.
- c. how demanders are willing to trade one good for another.

(d:) the opportunity cost of one good in terms of the other.

0- The lump sum principle suggests that the tax that reduces utility the least is

- a' a tax on income
- b. a tax on a good with many substitutes
- c. an equal tax per-unit on all goods
- d. a tax on a good with only a few substitutes

Part B: The Essay Questions (60 points) Solve the following three questions

Question # 1 : (20 points)

The market of corn has the following equations for the demand and supply curves:

QD = 8000 - 1000 P QS = -4000 + 2000 P $V_{000} = 2000$ P = 7 = 7 QS = -4000 + 2000 P QS = -4000 + 2000 + 2000 P QS = -4000 + 2000 + 2000 + 2000 + 2000 + 200

Quantities are measured in millions of bushels; prices are measured in dollars per bushel.

a. Find the equilibrium price and quantity for corn.



b. at equilibrium price, what is the price elasticity of demand for corn? Is the demand for corn elastic or inelastic?

$$C = \frac{1}{1000} + \frac{1}{9}$$

$$= \frac{1}{1000} + \frac{1}{1000} = \frac{1}{1000} + \frac{1}{10$$

In order to raise revenue from corn sales, should Agriculture Department change the price of corn? If so, should they raise or lower prices? Explain



a- To what effect (income or substitution) do you attribute the change in utility levels between part a and part b.

Question #3 : (20 points)

ua si di kakababa s

Assume two goods, X and y, y is normal good but x is inferior good, show the effect of a decrease in the price of good x, (indifference curves, u1 and u2, budget lines BL1 and BL2, quantities of x &y, income effect and substitution effect) all this on the same graph. don't forget to show me your analysis. $\sqrt{4}$

PJ

i f Px.L Px+ > Qdy > Qdr.1 Yz ¥, PXJ > P.PT Golx J $\frac{1}{2}$.E So tow effect is opposite direction. BLI T, S. E from Ato B. I.E T.E from B to V Good Luck x* BÌ