## Birzeit University

Economic Department
First Exam Eco 3311
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ALL MULTIPLE CHOICE ANSWERS MUST BE ON THIS SHEET FOR CREDIT

Point multiple choice:


## Question one( 50 points)



1- 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.

2- Let $Q_{D}=-5 P+54$ and $Q_{S}=P-6$. Equilibrium can be found at
(a) $\mathrm{Q}=4 ; \mathrm{P}=10$
$-5 P+54=P-6$

b. $\quad Q=6 ; P=10$
c. $\quad P=6 ; Q=0$
$\angle P=\sigma^{\circ}$
d. $\quad \mathrm{Q}=\frac{54}{5} ; \mathrm{P}=2$
$P=10$

3- The difference between what a consumer is willing to pay for a unit of a good and what must be paid when actually buying it is called:
(3) Producer surplus.
b. Cost benefits analysis.

C Net utility.
d. Consumer surplus.


4- Which of the following functional forms for utility suggests the greatest substitution effect when starting at the point where $P X=P Y$.
(b. $U=X+Y$
c. $\quad U=X 1 / 2 Y 1 / 2$

d. $\quad U=X 1 / 4 Y 3 / 4$

5- An increase in the technology used in the production ofionly one of the two goods in a society will
a. eliminate scarcity
b. move the production possibilities frontier out in all directions*
c. move the production possibilities frontier in all directions*

leave one corner of the production possibilities frontier fixed and swing out from the other

Suppose right ( $R$ ) and left (L) shoes are only useful if produced in equal proportion and societal happiness is expressed as min $(R, L)$. The contour lines would be
a. downward sloping lines
b. upward sloping lines
(c) L-shaped
d. backward L-shaped

7- Demand functions are "homogeneous of degree zero in all prices and income." This means
a. aproportionatincrease in all prices and income will leave quantities demanded unchanged.
7.) a doubling of all prices will not alter consumption decisions. $X \cdots$
c. prices directly enter individuals' utility functions.
d. an increase in income will cause all quantities demanded to increase proportionately


8- $\quad$ 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.
9.) Suppose an individual's MRS ${ }^{\frac{5}{2}}$ 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 $\frac{M \cup B}{\text { mog }}=P B$
is $\$ 1$ and a beer is $25 \%$. Then in order to increase utility the individual should a. buy more steak and less beer.
(b.) buy more steak and less beer.
(d.)
continue with current consumption plans. $x$

10- Indifference curves

$$
M B S=\quad M R S
$$

a. are nonintersecting.
b. are contour lines of a utility function. 2, 1
d. All of the above.
$2 s=B$
Not enough information to answer the question. $\mathcal{X}$

11- The point of tangency between a consumer's budget constraint and his or her indifference curve represents
a. complete satisfaction for the consumer.
b. the equivalence of prices the consumer. pays.
(C) constrained utility maximization for the consumer.
d. the least he or she can spend.


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.
d.
shift the budget constraint outward in a parallel way, an ${ }^{5} 3_{4}^{5}$ if
rotate the budget constraint about the Y axis.

$$
\frac{5}{5 n e 5}-\frac{3}{4}
$$

(3-) If an individual has a constant MRS of shoes for sneakers of $3 / 4$ that is, he or she is always willing to give up 3 pairs of sneakers to get 4 pairs of shoes) then, if speakers and shoes are equally costly, he or she will
(a) buy only sneakers.
b. buy only shoes.

Ash
c. spend his or her income equally on sneakers and shoes.
d. wear sneakers only $3 / 4$ of the time.

Mus Snead.
Mu mustor=3 shoes.

14- Suppose that at current consumption levels an individual's marginal utility of consuming an extra hot dog is 10 whereas the marginal utility of consuming an extra soft drink is 2 . Then the $M R S$ (of soft drinks for hot dogs)- that is, the number of hot dogs the individual is willing to give up to get one more soft drink is

| (a.) | 5 |
| :---: | :---: |
| b. | 2 |
| c. | $1 / 2$ |

## hot dock

$M \cup H=10,2 \frac{10}{2} \quad \mathrm{Ma}$
$\frac{10}{2}=\frac{+1}{5}=\frac{10}{2}=5$

$\begin{aligned} M u & =\frac{M u x}{M u y} \\ & =\frac{2}{10}\end{aligned}$
d. $\quad 1 / 5$

15- If people like their goods in fixed proportions, the two goods are (3) perfect substitutes $X$
b. perfect complements
c. complements (but not perfect)
(d) substitutes (but not perfect)


16- With only two goods, if the income effect is in the opposite direction as the substitution effect
but the substitution effect(dominates then the good is normal inferior but not Giffen
Geffen K
d. There is not enough information to answer. $X$


17- 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


18- The slope of the budget constraint line is (assume good y on the $y$-axis, good $x$ on the $x$-axis)
数 the ratio of the prices ( $\mathrm{Px} / \mathrm{Py}$ ).
$\mathrm{B}_{5}$ the negative of the ratio of the prices ( $\mathrm{Px} / \mathrm{Py}$ ).
c. the ratio of income divided by price of $Y(1 / P Y)$.
d. none of these.

19- If a good is inferior and its price decreases,





9
a. the income effect will be positive and the substitution effect. will be positive.
6. the income effect will be negative and the substitution effect will be negative. $A$
(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 $A$

20- If the prices of all goods increase by the same proportion as income, the quantity demanded of $\operatorname{good} X$ will
a. decrease.
b. increase.

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© remain unchanged.
d. change in a way that cannot be determined from the information given.

21- At any price, the market demand curve
(a.) is flatter"than the flattest individual demand curve.
b. has a slope that is the average of the individual demand curve slopes,
c. is steeper than the steepest individual demand curve.
d. has a horizontal intercept equal to the average of the individual demand curve horizontal intercepts.




22- If the income elasticity of demand is 0.5 , the good is

c. an inferior good.
d. - a Giffen good.

23- If the demand for a product is elastic, then a rise in price will. cause total-spending on the good to increase.
cause total spending on the good to decrease.






keep total spending the same, but reduce the quantity demanded. $*$
keep total spending the same, but increase the quantity demanded.
24- If goods $X$ and $Y$ are complements, then the cross price elasticity of demand between them will
be
a. positive.
(b.) negative.
c. zero.
d. infinity.






25- 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?
a. 20
(6) 16
c. $\quad 10$
d. 8
$e p^{i S^{n}} 4^{M-\frac{20}{1.25}}$


Q \$



N

$=200$

Elizabeth makes $\$ 200$ a week at her summer job and spend her entire weekly income on new running shoes and jeans, because these are the only two items that provide utility to her. Furthermore, Elizabeth insists that for every pair of jeans she buys, she must also buy a pair of shoes.

2- If jeans cost $\$ 20$, and shoes cost $20 \$$, how many will Elizabeth buy of each? ?draw her budget
SN

$$
\frac{P X}{P G}=\frac{20}{20}=1 \quad, U(J, 5)=J+5, \frac{M 4 J}{M 4 J}=1 \text { b-budget cine }
$$

(1) $I=P_{5} \cdot T+p_{5}: 5(2) \Rightarrow 200=20(+5+10)+20.5$
$200=40.5$

$$
T \rightarrow 3
$$


$\left.J=\frac{-205}{20}+\frac{200}{20} \right\rvert\,$
$S=\frac{200}{410}$

$$
J=-5+10
$$

$S=5 \Rightarrow 20.5+20.5=200$

$$
\text { So she shad cansum } 5 J+55
$$

1) b- Suppose that the price of jeans rises to $\$ 30$ a pair. How many shoes and jean $\quad \begin{aligned} & 30 J+205=200 \\ & P J=30 \quad \frac{P S}{P 5}=\frac{20}{30}=0.660 \quad \frac{P S}{P J}=\frac{20}{30}=0.66\end{aligned}$
$M R S=\frac{m a x}{m 4 x}=\frac{1}{1}=1>0,66 e$ so she should consume
$I=30 \mathrm{~J}+205$
(1)
$I=-205+6,667$
$\frac{-30 J}{-30}=-\frac{205}{30}-\frac{I}{-30}$,
$205=193,3$

$$
J=\frac{-20}{30} 5-\frac{I}{-30} \quad 5 \approx 9,5
$$

$6^{c-}$ Show your results by graphing the budget constraints for part a and part b. also draw



$$
\begin{aligned}
& 200=20 j+205 \\
& 200-205=20 J \\
& J=10-5 \\
& 20 S+20 J=200 \rightarrow C \\
& \frac{M \cup J}{M \cup S}=\frac{P J}{P S}=1
\end{aligned}
$$



Assume two goods, $x$ and $y$ they are normal goods, show the effect of a decrease in the price of good $x$, on the following: ( indifference curves, $u 1$ and $u 2$, budget lines BLI 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.

$\frac{I}{e^{s}}$

as the price of $x \frac{1}{y}$ the Panchasing potmen it so we will
consume mon of this is the in com Good Luck


$$
\text { utility } \Rightarrow \text { from point } A \text { to } B
$$

