

1)	(A)	000	(C)	(D)	Place an X on the correct choice
2)	(A)	(NO)	(C)	( <b>L</b> )	
3)	(A)	(B)	Ø	(D)	
4)	<b>X</b> X	(B)	(C)	(D)	
5)	(A)	X	(C)	(D)	
6)	(A)	X	(C)	(D)	
7)	(A)	(B)	(C)	<b>%</b>	
8)	(A)	×	(C)	(D)	1, 17
9)	(A)	<b>(24)</b>	(C)	(D)	1/1/0/1/
10)	(A)	X	(C)	(D)	' // 6
11)	(A)	(B)	(C)	( <b>X</b> )	J, // // //
12)	(A)	<b>9</b>	(C)	(D)	/ / 3
13)	M	(B)	(C)	(D)	1
14)	×	(B)	(C)	(D)	
15)	X	(B)	(C)	(D)	
16)	(A)	X	(C)	(D)	$J_{i}$
17)	(A)	×	(C)	(D)	
18)	(A)	(B)	(C)	×	
19)	(A)	(B)	×	(D)	$\mathcal{J}_{I}$
20)	×	(B)	(C)	(D)	



Part I 60%



1. The cross elasticity of demand for product X with respect to the price of product Y is -1.2. It can be inferred (يمكن الاستنتاج) that X and Y are

A. substitute products.

B complementary products.

C. luxury products.

D. unrelated or independent products:- 6

2. Utility maximization is done to achieve the following:

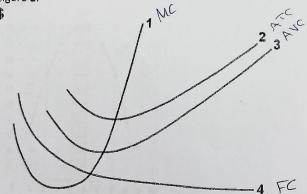
A. derive (اشتقاق) consumer demand.

show income and substitution effect.

C. derive the income-expansion path.

(D) all of the above.





## Output

3. In the figure 2 above, curves 1, 2, 3, and 4 represent the

A. ATC, MC, AFC, and AVC curves, respectively.

B. MC, AFC, AVC, and ATC curves, respectively.
CMC, ATC, AVC, and AFC curves, respectively.
D. ATC, AVC, AFC, and MC curves, respectively.

- المحصول سريع التلف ) like immediate market period for a highly perishable crop (محصول سريع التلف) like tomatoes, the individual farmer's supply curve tends to be
  - A. perfectly inelastic.

  - B. perfectly elastic.

    C. Very elastic, but not perfectly \*
  - D. downward-sloping.



5. The law of diminishing marginal utility explains why

A. supply curves slope upward.

B demand curves slope downward.

C. addicts (المدمنون) can never get enough drugs. 🗴

D. people will only consume their favorite goods and not try new things.

(مجو هرات) water is cheaper than "nonessential" (غير ضروري) diamonds (ضروري) because

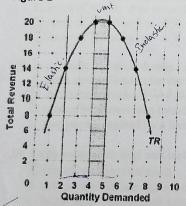
A. new industrial uses for diamonds have been discovered. ×

B the supply of water is great relative to demand and the supply of diamonds is small relative to demand. ?

C. although the total utility of diamonds is greater, their marginal utility is small.

D. the supply of diamonds is great relative to demand and the supply of water is small relative to demand.





7. Suppose the total-revenue curve in **Figure 1** above is derived from a particular linear demand curve. That demand curve must be

A. inelastic for price declines that increase quantity demanded from 2 units to 3 units.

B. elastic for price declines that increase quantity demanded from 5 units to 6 units.

C inelastic for price increases that reduce quantity demanded from 4 units to 3 units.

Delastic for price increases that reduce quantity demanded from 4 units to 3 units.

8. The elasticity of demand for a product is likely to be greater,

if the product is a necessity (سلعة ضرورية), rather than a luxury good (سلعة مترفه)

the greater the amount of time over which buyers adjust to a price change.

C. the smaller the proportion of one's income spent on the product. X

D. the smaller the number of substitute products available.



U	C
9. At an output level of 50 units per day, a firm has average total costs	s of \$60 and average
/ Variable costs of \$55. Its total fixed COSIS AIP	
variable costs of \$35. Its total fixed costs are  A. \$925.  B. \$1,250.  C. \$1,750.  TFC = $?$	TVC=
(B)\$1,250. C.\$1,750.	
D. \$3,000.	1250 + ?
D. \$5,000.	- ( = ( 1)0 (
10. Marginal product of labor refers to the	$= \frac{1}{Q} \qquad TVC = \frac{1}{2}$ $= \frac{1}{Q} \qquad TVC = \frac{1}{Q} \qquad TVC = \frac{1}{Q}$ $= \frac{1}{Q} \qquad TVC = \frac{1}{Q} \qquad TVC = \frac{1}{Q}$ $= \frac{1}{Q} \qquad TVC = \frac{1}{Q} \qquad TVC = \frac{1}{Q}$ $= \frac{1}{Q} \qquad TVC = \frac{1}{Q} \qquad TVC = \frac{1}{Q} \qquad TVC = \frac{1}{Q}$ $= \frac{1}{Q} \qquad TVC = \frac{1}{Q$
A. last unit of output produced by labor at the end of each perio	3000
B) increase in output resulting from and it the end of each perio	0.1 ×
increase in output resulting from employing one more unit of total output divided by the number of labor employed.	i labor.
D. smallest unit of the output produced by labor.	
and of the output produced by labor.	
11. Suppose that MUx/Px exceeds MUy/Py. To maximize utility, the conher money income should buy  A. less of X only if its price rises.  B. more of Y only if its price rises.  C. more of Y and/or less of X.	sumer who is spending all
Dmore of X and/or less of Y.	1
12. A perfectly inelastic demand schedule	Nov:
A. rises upward and to the right but has a constant slope.	
B can be represented (بمكن تمثيله) by a line parallel to the vertical a	vie
C. cannot be shown on a two-dimensional graph ( ارسم ثنائي الابعاد)	ixis.
D. can be represented by a line parallel to the horizontal axis.	1
b. ear be represented by a fine paramet to the norizontal axis.	
12 To the companies total time 1. 1	
13. To the economist, total cost includes	
A) explicit and implicit costs.	
B. neither implicit nor explicit costs.	
C. implicit, but not explicit, costs.	
D. explicit, but not implicit, costs.	
14. The slope of the total product curve is	
Amarginal product	
B. average product.	
C. marginal cost.	
D. average fixed cost.	
<b>6</b>	
15. Utility refers to the	
A satisfaction that a consumer derives from a good or service.	
B rate of dealing in a graduat desired in the good of service.	
B. rate of decline in a product demand curve.	
C. relative scarcity of a product.	
D. pleasure (a) of a product	



16. Suppose we find that the price elasticity of d increased by 2 percent. We can conclude that qu	emand for a product is 3.5 when its price is
A increased by 7 percent.	antity demanded
B. decreased by 7 percent.	
	-3.5 = P-21.
C. decreased by 9 percent.	
D. decreased by 1.75 percent.	
17. To maximize utility, a consumer should alloca	te (یخصص) money income so that the
A. elasticity of demand on all products purcha	sed is the same⊁
n B. marginal utility obtained from the last dollar	er spent on each product is the same
January and From Outlier Chine	limed is the same
D. marginal utility of the last unit of each production	huat computed in the same
b and the fact that the of each proc	fuct consumed is the same.
18 Ahmad gata 18 wit- Class to 18 mg	
18. Ahmad gets 15 utils (وحدة قياس المنفعة) from con	suming 6 apples and 18 utils from consuming /
apples; what is the arginal utility for the 7th apple?	( )
A5.	18 - 18-
B. +5.	<u>A</u>
C -10	OF DE
C. −10. D+3.	(1)5
Ū, ₱ 3,	(6)
	ATR = 18-15 BLDR 15 (A) 18
19. If a firm increases all of its inputs by 10 percer	at and its output increases by 10 percent, then
A. it is encountering diseconomies of scale.	
B. it is encountering economies of scale.	
C. it is encountering constant returns to scale.	
D. the marginal products of all inputs are falli	ng.
20. In the long run,	
1	
all costs are variable costs.	
B. all costs are fixed costs.	
C. variable costs equal fixed costs.⁴	
D. fixed costs are greater than variable costs.	
D. HACE COSES are greater than variable coses.	



## Part II 40%

1) [16 points] A consumer who buys two goods X and Y with prices Px=2 and Py=1, the consumers income is \$12/month. Her consumption schedule is given below:

MU- DTU

Q(x)	Mux	n schedule is Mux/Px	given bel	ow:
0		TVIUX/PX	MUy	MUy/Py
1			_	
	10	57	8	8
2	8	14	7	0
3	6	13/1	/	
4	1	2	6	6
-	4	2	5	57
	3	1.5	4	\u
6	2		3	2

a) [7 points] Calculate the MU and the MU per dollar for each good in the in the table above, show the formulas for your calculations below

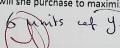
$$\frac{\text{MU}}{\text{AQ}} = \frac{\text{STU}}{\text{AQ}} = \frac{\text{AQ}}{\text{AQ}} = \frac{\text{AQ}}$$

b) [3 points] What are the equilibrium conditions that must be satisfied to get maximum utility

- un			6-1
Group		Income	When the Consumer
A '	Qx=1, Qy=4, Px=2, Py=1	2+4=6	buys 3 mass Quantities
B	ax=2, ay=5, Px=2, Py=1	HD+5=A	at graduat x, and 6
			This Group of produty.
C	1 Q x = 3, Qy = 6, Px = 2, Py=1	6+6=12+D	This Group produty.

c) [3 points] How many units of X and Y will she purchase to maximize utility.

3 units col X,



d) [3 points] What is the Interpretation (تأسير) of (MU $_{x}/MU_{y}$ )

while the Quantity is Increasing, the (MUx/MUy) is decreasing, that mean they will be equal (Their MU) at 3rd Quantity.

	Q	MUx/MUy
	0	100
	1	1.25
	2	1.14
. \ _	3	1
$\mathcal{T}$	4	0.8
10.00	5	0.75
	6	0.66



2) [15 points] A firm has the following production relation

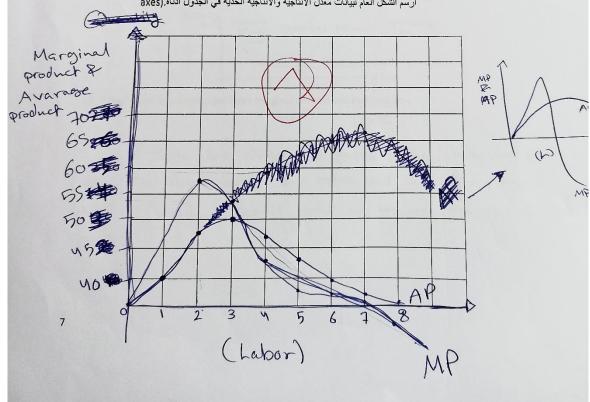
				×
L	Q	MPL	APL	MPL
0	0	0,	0	
1	740:	MA	40	40
2	97	7 1	48.5	53
3	148/	74/2	49.3	51
4	190	707	42.5	42
5	217	1/8	43.4	27
6	235	7/9	39.2	18
7	244	1/3	34.85	9
8	241		30.125	-3

a) [8 points] Calculate the Average and marginal product of labor in the table above, write

) [8 points] Calculate the Average and marginal product of abor in the table above, write down the formulas you use in the space provided below. 
$$MP = \frac{\Delta Q}{\Delta L}, \quad AP_L = \frac{L}{L}$$

$$43-40, \quad 48-97, \quad 190-48, \quad 217-190, \quad 235-217, \quad 244-244$$

b) [7 points] Plot (ارسم) AP and MP of labor in the space below, (the figure does not have to be drawn to scale, just illustrate the general shape for the data above, Label your axes). ارسم الشكل العام لبيانات معدل الانتاجية والانتاجية الحدية في الجدول ادناه.



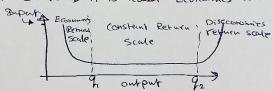


- Q3) [9 points] Answer the questions below in the space provided;
  - a) What is the difference between accounting profit and economic profit
    - \* Accounting Profit = Total Revenue Explicit Cost.
    - \* Economic Profit=Total Revenue Economic Cost.

(Explicit cost + Implicit Cost)

- b) What is the difference between diminishing returns and returns to scale
  - Production until the firm will be (possio) and that's lead to reduce the production.

\* Return to Scale = D it is about Economies and Diseconomies Scale



c) What is the relationship between marginal product and marginal cost

MP ME

\* Both are discrible extra units, marginal product is about adding one extra unit of labors, but marginal cost is about colding one extra unit of anant

