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STUDENT ID:	

Econ 1b03 Test 2, Solutions

Instructions:

Please print your name (last name, first name, middle initial) and student number in the space provided at the top of each page.

The test consists of 25 multiple choice (MC) questions and 1 short answer question. There is a total of 15 marks on the test. You have 50 minutes to complete the test. Answer all questions.

Only one answer is correct for the MC questions. Points are awarded if only the correct answer is circled. Answer the short answer question in the space provided below.

No material, other than University approved calculators, is allowed.

Multiple choice questions (1/2 marks each, total 12.5 marks):

- 1. The only producer of chocolate bunnies in the world, Choco's Bunny Company, recently expanded its production capacity from 1,000 bunnies per day to 2,000 per day. Supposing the price elasticity of demand for Bunnies is 3.33, if you use the midpoint method of estimating the price elasticity of demand, by how much will the company need to reduce its price to sell the additional 1,000 bunnies?
- A) 2.5%
- B) 25%
- C) 125%
- D) 20%
- 2. Jacquelyn is a student at Queen's university. Which of the following is NOT an example of an explicit cost of her attending university?
- A) tuition
- B) textbooks
- C) the salary that she could have earned working full time
- D) computer lab fees

C) some inputs are fixed and some inputs are variable.

A) 10% decrease in quantity demanded.
B) 20% increase in quantity demanded.
C) 20% decrease in quantity demanded.
D) 10% increase in quantity demanded.

B) 1.4. C) 0.7. D) 0.5.

A) 8 **B) 10** C) 5 D) 11

5. In the short run:

A) all inputs are fixed.B) all inputs are variable.

D) all costs are variable.

6. A price elasticity of demand of 0.5 means that a 20% increase in price will result in a:

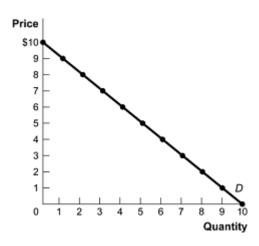
7. Joan loves to eat sushi. Her first piece of sushi normally yields a marginal benefit of \$5. Each additional piece creates a declining marginal benefit by \$0.25 per piece. If her favorite sushi bar charges \$2.75 per piece of sushi, how many pieces should she eat?

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8. Figure: Demand Curve



In the accompanying figure, the price elasticity of demand between \$8 and \$9, which you can calculate by using the midpoint method, is approximately:

- A) 0.18.
- B) 0.56.
- C) 1.8.
- D) 5.67.
- 9. Along a given demand curve, an increase in the price of a good will:
- A) increase consumer surplus.
- B) decrease consumer surplus.
- C) have no effect on consumer surplus.
- D) decrease producer surplus.

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10. Table: Market for Pizza

Price	Quantity of pizza demanded	Quantity of pizza demanded
(per pizza)	(given income of \$1,000 per	(given income of \$1,400 per
	month)	month)
\$20	3	7
18	4	8
16	5	9
14	6	10
12	7	11
10	8	12
8	9	13
6	10	14

In the accompanying table, the income elasticity of demand for pizza at a price of \$14 per pizza when income changes from \$1,000 to \$1,400 per month is:

- A) -1.
- B) 1.
- C) 1.25.
- D) 1.5.
- 11. The price elasticity of demand:
- A) measures the responsiveness of quantity demanded to a change in price.
- B) measures the responsiveness of price to a change in quantity demanded.
- C) measures the extent to which prices are flexible and respond to market forces.
- D) measures the responsiveness of demand when price is held constant and demand increases or decreases.

12.	If the governm	ent raises the excis	e tax on gas	soline by \$1,	then the co	nsumer
surp	olus will	and the producer s	surplus will _	<u> </u>		

A) increase; increaseB) increase; decreaseC) decrease; decreaseD) decrease; increase

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13. A perfectly price-inelastic demand curv	e is:
A) horizontal.B) downward sloping.C) upward sloping.D) vertical.	
14. Along a given supply curve, an increase	e in the price of a good will:
A) increase producer surplus.B) decrease producer surplus.C) increase consumer surplus.D) both b and c	
15. After you graduate from college, you or many other businesses in your city that sell demand for the computers that your businesses.	
A) 1.B) 0.C) highly elastic.D) highly inelastic.	
16. "Market failure" refers to a situation in v	vhich:
A) markets fail to reach a fair outcome	

- A) markets fail to reach a fair outcome.
- B) markets establish a high price for necessities.
- C) market-determined wages are not high enough to raise all workers above the poverty line.
- D) markets fail to reach an efficient outcome.
- 17. In a linear demand curve:
- A) demand is elastic at low prices.
- B) demand is inelastic at high prices.
- C) elasticity is the same at all points on the demand curve.
- D) none of the above is correct.

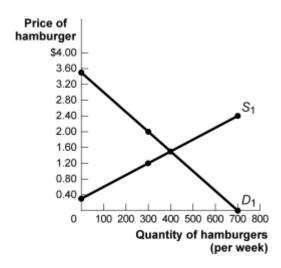
18. Table: Consumer Surplus and *Phantom* Tickets

Student	Willingness to pay
Jessica	\$150
Jacquelyn	125
Brad	105
Robert	60
Gwen	25

If the box-office price of a ticket to see *Phantom of the Opera* is \$50, and there is no other market for tickets, then total consumer surplus for the five students is:

- A) \$100.
- B) \$175.
- C) \$230.
- D) \$240.

19. Figure: Market for Hamburgers



The accompanying figure shows the weekly market for hamburgers at the Tasty Burger Palace. If the Palace lowers the price of a burger from \$2 to \$1.50, the gain in consumer surplus to consumers who are persuaded to buy because of the lower price (and who were not buying when the price was \$2) is equal to:

- A) \$100.
- B) \$75.
- C) \$50.
- D) \$25.

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20. Peanut butter and jelly are complement producer surplus in the peanut butter marke	
A) will increase.B) will decrease.C) will not change.D) may change, but it is impossible to tell if	it will increase or decrease.
21. If the government imposes a binding prifollowing will NOT occur?	ice-ceiling on a good, then which of the
 A) Producer surplus will decrease. B) Consumer surplus may increase or decr C) Total surplus will remain constant. D) The quantity of the good transacted will 	
22. Peanut butter is an inferior good. If ther the peanut butter market:	e is an increase in income, total surplus in
A) will increase.B) will decrease.C) will not change.D) may change, but we cannot determine the contract of the contract of	ne change without more information.
23. Which of the following is true when a m government intervention?	arket is in equilibrium and there is no
 A) Total surplus is maximized. B) The deadweight loss is eliminated. C) No mutually beneficial trades are missed D) All of the above are correct. 	d.
24. Tara notices that one hour of studying of 11 points, while the second hour increases a 4-point gain and the fourth hour only 1 points studying decreases over time.	her average by 7 points, the third hour yields
A) cost B) benefit C) opportunity cost D) time	

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- 25. The cross-price elasticity of electricity with respect to the price of natural gas has been estimated as being equal to 0.2. This implies that:
- A) natural gas and electricity are both normal goods.
- B) electricity and natural gas are complements.
- C) electricity and natural gas are substitutes.
- D) one of the two goods is inferior while the other is normal, but we need additional information to determine which of them is inferior.

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Short answer question [2.5 marks]:

a. The supply schedule for pizza is given below:

Price (\$)	Quantity supplied
1.00	0
1.50	40
2.00	60
2.50	90
3.00	120
5.00	150

Calculate the price elasticity of supply for a price increase from \$2.00 to \$2.50 using the mid-point method.

 $\varepsilon_s = 1.8$

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b) In the table below fill in the values for the average product of labour and the marginal product of labour. Remember that the formula for marginal product is:

$$MPL = \Delta Q / \Delta L$$

Quantity of Labour	Total Product	Average Product	Marginal Product
0	0		
10	100	10	10
20	180	9	8
25	200	8	4
30	210	7	2
50	250	5	2