Part I: Choose and write the appropriate answer on the answer sheet table provided at the last page (1 point for each question). (20 points total) Which one of the following provides an economic explanation for how different consumers allocate their money income among different goods and services? A. Consumers try to get the "most for their money" to maximize their total utility. B. Consumers have clear cut preferences and can determine how much marginal utility

they get from consuming more units of a product

C. All consumers face a budget constraint, therefore must make decisions about what they buy based on their limited budget

D/ All

- 2. Which of the following statements is true of perfectly competitive firms in long run equilibrium?
 - A. Price is greater than marginal revenue
 - B. Average fixed cost equals marginal cost.
 - C Long run Average Total cost is at a minimum.
 - D. Average variable cost is greater than marginal cost.

A consumer's budget constraint shows:

- A. The utility that an individual would receive from consuming various combinations of
- B. The combinations of two goods that an individual is able to purchase, given prices and income

C. How income is influenced by prices of goods

- D. The consumer's affordable consumption bundles that don't cost any more than income
- 4. Which of the following is usually a characteristic of a perfectly competitive industry?

A. Individual firm has significant amount of market power.

C. Any individual firm can increase its production and sales by affecting the price of the Br The individual demand curve is perfectly elastic.

5. One of the following explains why an Indifference curve is convex to the origin. Falling Marginal Rate of Substitution (MRS) along the indifference curve

B Rising Marginal Rate of Substitution (MRS) along the indifference curve x. C. It is not possible to consume more of two goods at same time because of budget constraints

Greater labor productivity means Lower output per unit of labor B Higher output per unit of labor C. Higher labor cost per unit of output

D. Lower cost per unit of output

E. B and D

19. If MUx/Px exceeds MUy/Py, then the consumer should E. The MC curve above average variable cost. D. The level of the firm's short-run average total cost. Market demand and market supply. B. The price set by the individual firm, A Firm demand and firm supply. 18. A perfectly competitive firm's demand curve is determined by: D. AVC curve crosses MC curve when MC attains its minimum. C. All costs, except MCs, are represented by U-shaped curves on a graph. just a mirror reflection of APL on a graph, B. Assuming labor is the only variable input in the short run, the shape of the AVC curve is A, All cost curves, including AFC curves, are represented by U-shaped curves on a graph. 17. Choose a correct statement about costs from the following statements: (escoring in a lindifferent (additional factor should be considered for decision purpose) D. Reduce output to zero. C. Leave output unchanged. B. Increase its selling price. A. Reduce output but keep producing. marginal cost = \$3. To achieve optimum output, the firm should: position: output = 1000 units, market price = \$3, total cost = \$5000, fixed cost = \$2000, 16. At present output levels, a firm in a perfectly competitive industry is in the following D. Total utility is increasing q s um & yanom lo villity of money & mu 2 p GB-MU becomes zero 15. A consumer atop buying additional unit of the commodity at equilibrium when: A. MU starts decliming its intersection with the average variable cost curve. D. It has a supply curve derived from that part of its marginal cost curve lying above lying above its intersection with the average variable cost curve) C. It has a supply curve derived from its average total cost curve (that portion of it lying above its intersection with its average total cost curve)

R Consume less of good X and more of good Y Y boog to seal bas X boog to stom smusno)

C. Consume less of both goods X and Y

Allocate resources at equilibrium in which price exceed marginal cost which leads to conomists as socially undesirable. This is due to the facts that monopolies 20. As compare to perfect competitive market, monopoly market structure is considered by

El bas A 3 D. Lead to an efficient use of searce productive resources C. Charges a minimum reasonable price B. Discourage innovations since there are no competitors

Part II:

Part III: Work out. Attempt all the following questions as per the instruction given. Show

respectively. Based on the above information, answer the following questions. income of 120 Birr. And the price of chocolates and ice cream is given as Birr 5 and 10 1. Suppose a consumer's utility function for chocolates(C) and ice cream (I) is U=CI with an 01 big 2 mility function for chocolates(C) and ice cream is given as Birt 5 and 10

JUM = 2000 1000 - 20000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 A. Compute consumer's consumption amount of C and I if he/ she consumes at equilibrium

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B. Calculate consumer's maximum utility level at equilibrium point (1 point)

C. Show the equilibrium condition results graphically (1 point).

The consumers itality well decrease because tax consumer's income level remain unchanged, Will the introduction of tax increases or D. If the government imposes quantity tax of 2 on both Chocolate and Ice cream while

Associate with means it will be tangent to indefference curve in modely will be tangent to indefference curve in the tree out in the last of the curve control of the last of will make 'c' and 'I' more expensive for the consumers.

And water the consumers budget equation will shift to a a consumers.

286917 Mignem to enquis average product of labour (Ipoint) C. By indicating their maximum values, sketch the graphs of marginal product and 09=72! · 0= 09 + 721- 0H 5(2,7)38+2(2,7)5-=D 5.7= 21 = 25 = 1 Az 0= (709+279-)P F 0=08+7+- 4 O= JUNP Jon II 0= (708+272-76 At 0= 7/4D is masimise mis to marinize AP: (2 points) B. Find the output level that maximizes marginal product and average product of labour 709+ -79- = -70 = -3W 705 +275- = 72 -708+572- = 34 = 0 A. Derive the functions of Average product of labor and Marginal product of labor (2 $Q = -2L^3 + 30L^2$, Where Q is the level of output and L is the amount of the variable input 2. Suppose a firm is operating with the following production function in the short -run while its

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seume a farmer engaging in fishing activity and experient competition marker faces short as Birr 20. Having this information, answer & following questions A. Determine the optimal level of outpt and price in the short run (2points) A. Determine the optimal level of outpt and price in the short run (2points)	
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output has an average total cost of Birr 15 and must pay Birr 35 Firm is using the least cost combination of inputs providing the maximum achievable Suppose a firm produce 180 and 200 unit output when it employs 3 and 4 labors respectively, which one of the When a firm increases its input of labor and capital by 40 %, its output changes from 120 to Birr per day. The value of average variable cost of production 14. If the firm is operating under pure monopoly market structure, which one of the following In the long run, compared with a perfectly competitive firm, a monopolistically competitive It has a supply curve derived from its average variable cost curve (that portion of it It does not have a supply curve because there is not necessary connection between I rate of substitution is equal to the ratio of input prices. Production exhibits increasing, constant and decreasing returns to scale attained, and marginal cost for the firm respectively is: about the second stage of production? lether it produces or not. The value of 15 There is proper combination of fixed and variable input C., 1 and 2.5 As variable input increases, marginal product decreases. production in the long-run As variable input increases, total product decreases. As variable input increases average product decrease Average product is greater than marginal product C) Constant the price of its product and its own output of production states that The same price and lower output A higher price and higher output A lower price and higher output A higher price and lower output A lower price and lower output reasing following statement(s) is/ are correct? one of the following is true It is the inefficient region firm with the same costs will have B. 2.5 And which optimum of the firm in Total product is falling Marginal rate of technica An isocost line is tangent 160 kilograms, the returns to A firm producing 7 units of The law of variable proportion production for the firm is: when 4 labours are used for the total fixed A) Increasing 3 and 4 is true? Which Ö. D. E C 6

Part 1. Choose the letter of the correct choice and write the capital letter on the answer sheet found at the end of the questions on this section. (30%; 1.5 pts each)

- 1. A positive Marginal Utility is best described by one of the following:
 - A. with consumption of an additional unit of a commodity, Total Utility increases.
 - B. with consumption of an additional unit of a commodity, Total Utility decreases.
 - C. with consumption of an additional unit of a commoaity, Total Utility remains the same.
 - D. with consumption of an additional unit of a commodity, Total Utility is maximized.
- 2. Indifference curves are always convex to the origin. What does this imply?
 - A. The two goods are imperfect substitutes for each other.
 - B. The marginal Rate of Substitution (MRS) between the two goods increases as a consumer moves down along the indifference curve.
 - C. The two goods are perfect substitutes for each other.
 - D. The two goods are complementary.
- 3. A consumer stop purchasing the additional unit of the commodity when:
 - A. Marginal Utility starts declining
 - B. Marginal Utility becomes zero
 - C. Total Utility is increasing
 - D. Marginal Utility is declining and becomes negative.
- 4. Bilen is a rational consumer and spends all of her income on consuming orange and banana. Suppose the last unit of orange consumed increased her total utility from 60 utils to 68 utils and the last unit of banana consumed increased her total utility from 25 utils to 29 utils. If the price of a unit of orange is 1Birr, what is the price of a unit of banana at equilibrium?

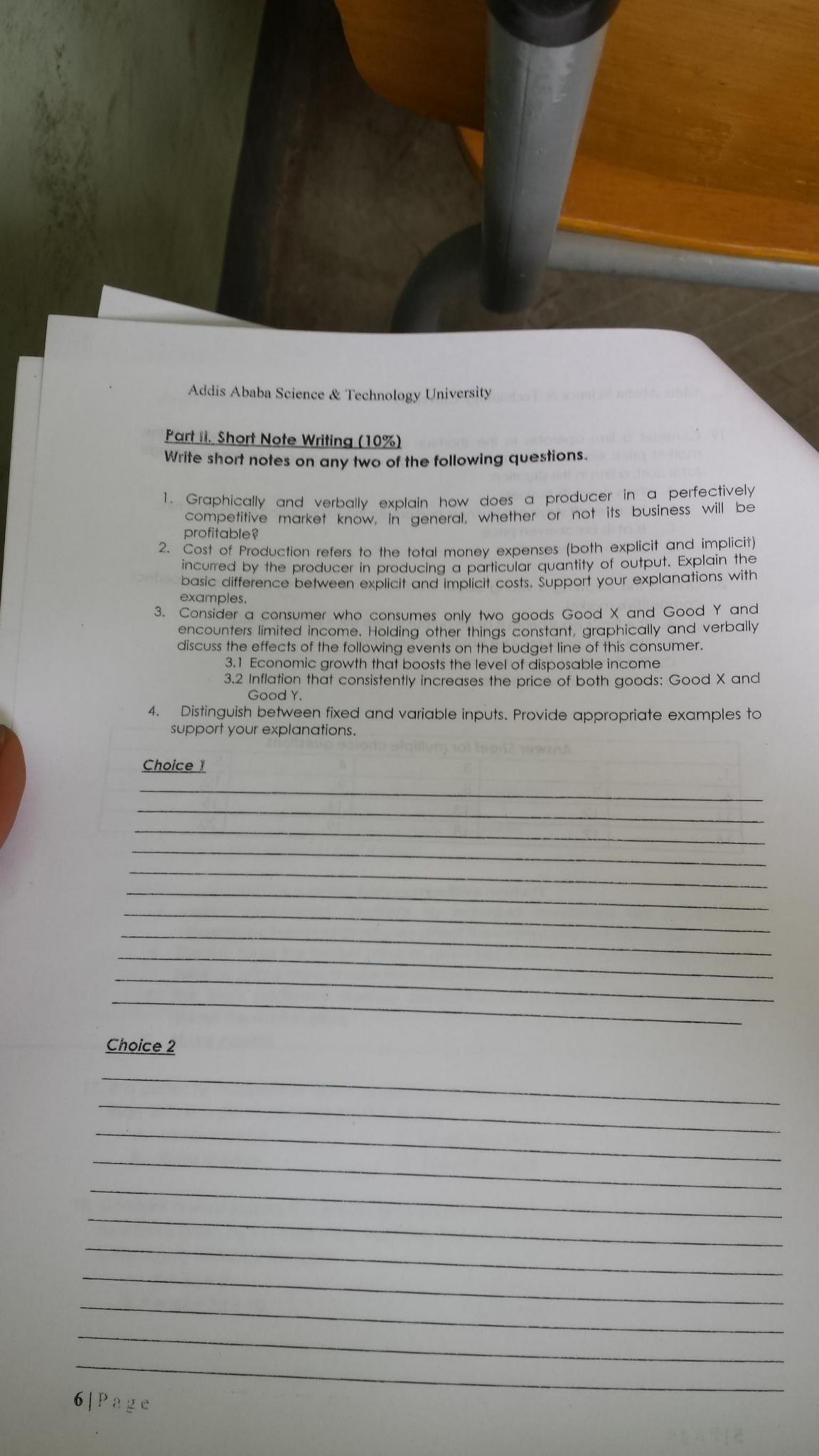
A. 0.5 Birr

C. 1 Birr

B. 1.5 Birr

D. 2 Birr

- 5. Identify a statement which best describes the economic intuition behind the Law of Diminishing Marginal Utility (LDMU).
 - A. as an individual increases consumption of a given product within a set period of time, the utility gained from consumption eventually declines.
 - B. the extra satisfaction (MU) that a consumer derives rises as he/she consumes more and more of the product in a given period of time.
 - C. as an individual increases consumption of a given product within a set period of time, the marginal utility gained from consumption eventually declines.
 - D. All of the above best describes the LDMU.



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