

Assignment No. 2

Course: Fundamentals of Economics

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Q. No. 1: Differentiate between Microeconomics and Macroeconomics. Discuss the term individual economizing problem.

Microeconomics and Macroeconomics are two branches of economics that focus on different aspects of economic analysis.

Microeconomics:

1. Microeconomics deals with the behavior and decisions of individual economic agents, such as consumers, firms, and households. It examines how they make choices, allocate resources, and interact in various markets.
2. It studies the specific economic units, their preferences, constraints, and decision-making processes.
3. Microeconomics explores topics like price determination in individual markets, consumer demand, producer supply, market structures (e.g., perfect competition, monopoly), and the impact of government policies on individual markets.
4. It aims to understand how individual economic actors maximize utility, profit, or well-being, given their limited resources.

Macroeconomics:

1. Macroeconomics, on the other hand, focuses on the broader economy as a whole. It examines aggregate variables, such as total output (Gross Domestic Product or GDP), inflation, unemployment, and overall economic growth.
2. It studies the economy's overall performance and the factors affecting it, like government policies, fiscal and monetary measures, and international trade.
3. Macroeconomics investigates issues like economic fluctuations (business cycles), economic stability, and long-term economic growth.
4. The goal of macroeconomics is to understand the overall health of the economy and to formulate policies that can address issues like inflation, recession, and unemployment.

Individual Economizing Problem: The individual economizing problem, often referred to as the consumer's optimization problem, is a central concept in microeconomics. It represents the challenge individual's face when trying to maximize their utility (satisfaction or well-being) given their limited budget and the prices of goods and services in the market.

Key elements of the individual economizing problem include:

1. **Budget Constraint:** Individuals have a limited budget to allocate among various goods and services. The budget constraint is determined by their income and the prices of goods. It defines the feasible combinations of goods that an individual can afford.
2. **Utility Maximization:** Individuals aim to maximize their utility or satisfaction. They make choices about the quantities of different goods to consume in order to achieve the highest level of utility possible, given their budget constraint.
3. **Marginal Analysis:** To make optimal decisions, individuals evaluate the marginal utility (additional satisfaction) of consuming one more unit of a good and compare it to the marginal cost (the price of the good). They will allocate their budget in such a way that the marginal utility per dollar spent

is the same for all goods. This principle is known as the equimarginal principle.

In summary, microeconomics examines how individual economic agents, like consumers, address the individual economizing problem by making rational choices to maximize their utility while staying within their budget constraints. Macroeconomics, on the other hand, focuses on the overall performance of the economy and the factors that influence it.

Q. No. 2: The data is given regarding individual economizing problem where you have budget and the two different commodities are mention with price. You may have to plot on graph.

Rs. 1000 Budget	
Pizza Rs. 100/Piece	Book Rs. 50/Piece
10	0
9	2
8	4
7	6
6	8
5	10
4	12
3	14
2	16
1	18
0	20

The data given in the above table is about an individual's budget constraint. The individual has a budget of Rs. 1000 and they can buy two different commodities: pizza and books. The price of a pizza is Rs. 100 and the price of a book is Rs. 50.

The graph shows the budget constraint, which is a line that represents all the possible combinations of pizza and books that the individual can afford. The slope of the budget constraint is negative, which means that as the individual buys more of one commodity, they must buy less of the other commodity. The intercepts of the budget constraint are (10, 0) and (0, 20), which means that the individual can buy either 10 pizzas or 20 books.

The indifference curves show the individual's preferences between pizza and books. An indifference curve is a line that connects all the combinations of pizza and books that give the individual the same level of satisfaction. The indifference curves are convex to the origin, which means that the individual prefers more of both pizza and books.

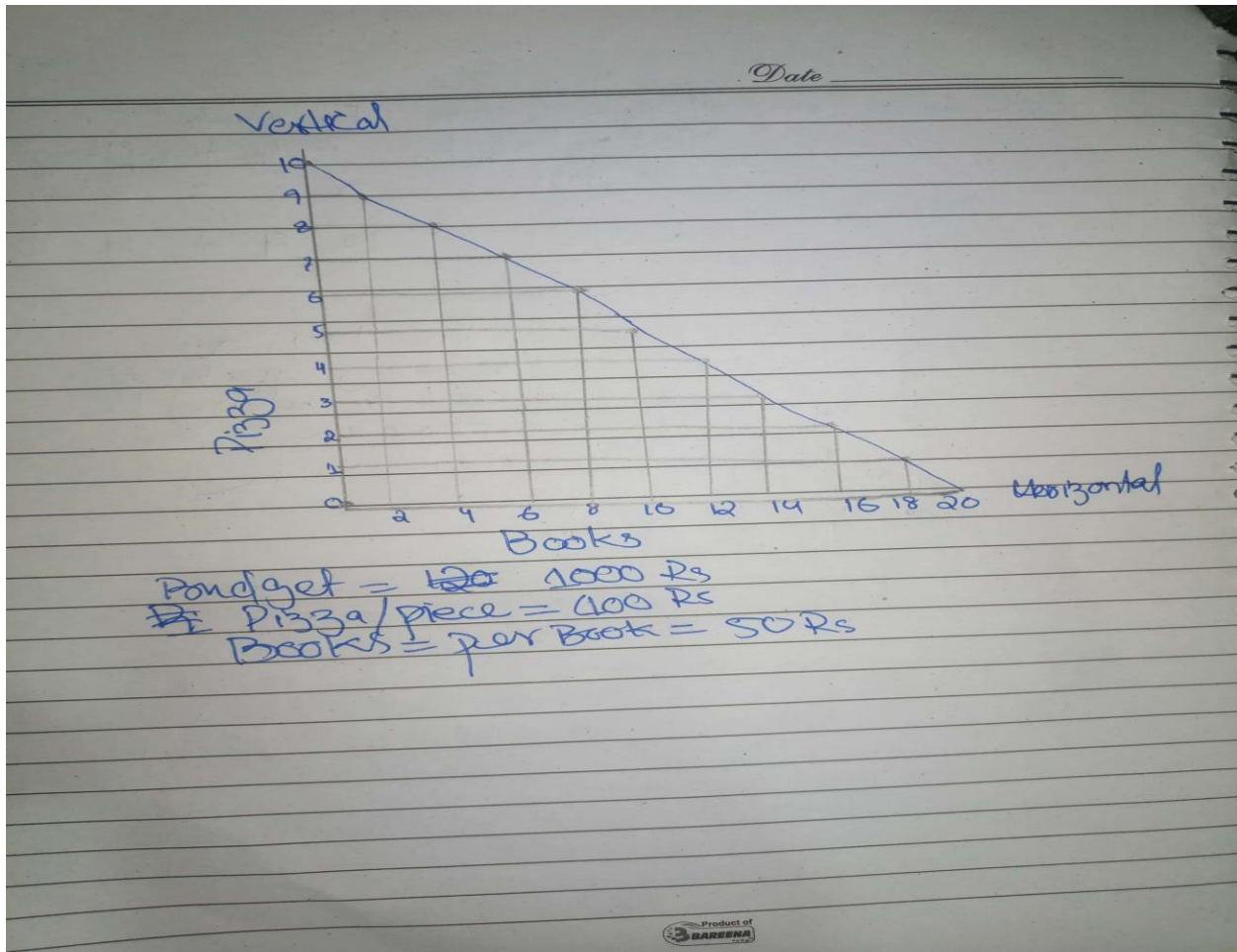
The optimal consumption bundle is the point where the budget constraint and the highest indifference curve intersect. In this case, the optimal consumption bundle is (4, 8), which means that the individual should buy 4 pizzas and 8 books.

The opportunity cost of buying one more pizza is 2 books. This is because the individual must give up 2 books in order to afford one more pizza. The marginal utility of pizza is the additional satisfaction that the individual gets from buying one more pizza. The marginal utility of books is the additional satisfaction that the individual gets from buying one more book.

The law of diminishing marginal utility states that the marginal utility of a good decreases as the individual consumes more of that good. This means that the first pizza that the individual buys will give them more satisfaction than the second pizza, and so on.

The individual's budget constraint and preferences will change as their income or the prices of pizza and books change. For example, if the individual's income increases, then their budget constraint will shift outward, which means that they can afford to buy more pizza and books. If the price of pizza decreases, then the budget constraint will pivot outward, which means that the individual can afford to buy more pizza and the

same amount of books.



Q. No. 3: Highlight the feature of society economizing problem and the data is given regarding society economizing problem, where you have budget and the two different commodities are to be produce for the society. You may have to plot on graph.

Society Economizing Problem with Utilizing Budget		
Types of Product	Pizza (in hundred thousands)	Robot (in thousands)
A	0	10
B	1	9
C	2	7
D	3	4
E	4	0

The society economizing problem is the fundamental economic problem that arises from the fact that society's unlimited wants for goods and services exceed the limited resources available to satisfy those wants. As a result, society must make choices about how to allocate its resources in order to maximize its satisfaction.

The data provided in the image shows the trade-offs that society must make when producing two different goods: pizza and robots. The table shows that society can produce either 100,000 pizzas and no robots, or no pizzas and 10,000 robots, or any combination of pizzas and robots that lies on the production possibilities frontier (PPF).

The PPF is a curve that shows the maximum amount of one good that can be produced given a certain amount of the other good. The PPF is bowed outward, which means that as society produces more of one good, it must give up more and more of the other good. This is because resources are scarce and must be used efficiently.

The opportunity cost of producing one good is the amount of the other good that must be forgone. For example, the opportunity cost of producing one robot is 100,000 pizzas. This means that if society wants to produce one more robot, it must give up 100,000 pizzas.

Society's choices about how to allocate its resources are determined by its values and goals. For example, if society values national security, it may choose to produce more robots, even if this means giving up some pizzas. On the other hand, if society values leisure time, it may choose to produce more pizzas, even if this means giving up some robots.

The economizing problem is a fundamental problem in economics because it is the basis for all economic decisions. All economic decisions, from the decisions that individuals make about how to spend their money to the decisions that governments make about how to allocate resources, are ultimately based on the economizing problem.

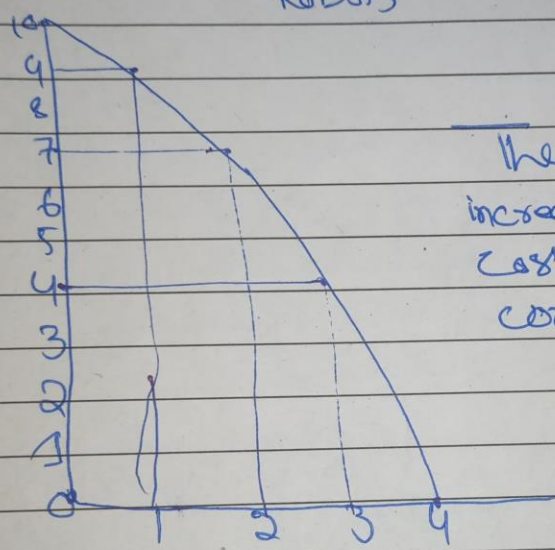
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Production Possibility Curve / Frontier

Types of Product	Production Alternatives				
	A	B	C	D	E
Robots	0	1	2	3	4

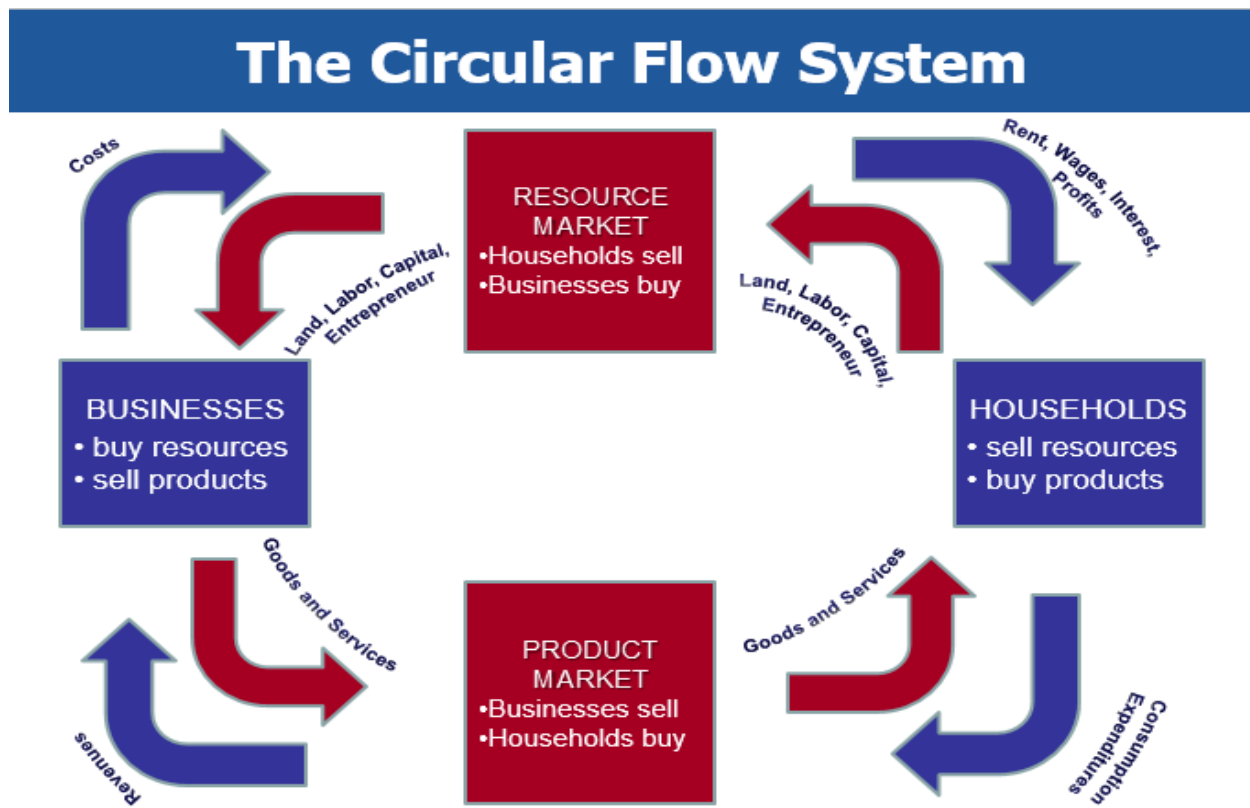
Robots

10 9 7 4 0



The law of increasing opportunity cost make the PPC concave

Q. No. 4: Discuss briefly the types of businesses and explain the circular flow system for the sake of businesses and households.



Types of businesses

The circular flow model shows how money flows between households and businesses. Households are the people who live in an economy, and businesses are the companies that produce goods and services.

There are three main types of businesses:

- Sole proprietorships: These are businesses that are owned and operated by one person. The owner is personally liable for all of the debts of the business.
- Partnerships: These are businesses that are owned and operated by two or more people. The partners are personally liable for all of the debts of the business.
- Corporations: These are businesses that are owned by shareholders. The shareholders are not personally liable for the debts of the business. Corporations are the most common type of business.

Circular flow system

The circular flow model shows how money flows between households and businesses. Households receive income from businesses in the form of wages, rent, interest, and profits. Households then spend this income on goods and services produced by businesses. This spending then generates income for businesses, which then pays households, and so on.

The circular flow model is a simplified representation of the economy, and it does not account for all of the complexities of the real world. However, it is a useful tool for understanding how the economy works.

Here are some of the key features of the circular flow model:

- The flow of money is circular. Money flows from households to businesses, and then from businesses back to households.
- There are two main markets in the circular flow model: the market for goods and services, and the market for factors of production.
- The circular flow model is based on the assumption that households and businesses are rational decision-makers.

Q. No. 5: Define the term law of theory of demand with respect to the price and also discuss the determinants factors of demand with each determinant example.

Law of Demand

The law of demand is an economic principle that states that there is an inverse relationship between the price of a good or service and the quantity demanded of that good or service, *ceteris paribus* (all other factors held constant). In other words, as the price of a good or service increases, the quantity demanded decreases, and vice versa.

This relationship can be represented by the following formula:

$$QD = f(P)$$

Where:

- QD is the quantity demanded of the good or service
- P is the price of the good or service

- $f()$ is a function that represents the relationship between QD and P

The law of demand is based on the principle of consumer rationality. Consumers are assumed to make decisions about how to allocate their limited resources in order to maximize their satisfaction. When the price of a good or service increases, consumers will substitute other goods or services for that good or service, or they will simply buy less of that good or service.

Determinants of Demand

In addition to price, there are several other factors that can affect the demand for a good or service. These factors include:

- **Consumer income:** As consumer income increases, the demand for normal goods increases, while the demand for inferior goods decreases.
- **Prices of related goods:** The demand for a good or service can be affected by the prices of related goods. Substitute goods are goods that can be used in place of another good. When the price of a substitute good increases, the demand for the original good increases. Complementary goods are goods that are used together. When the price of a complementary good increases, the demand for the original good decreases.
- **Consumer tastes and preferences:** Consumer tastes and preferences can change for a variety of reasons, such as advertising, fashion, or new technologies. When consumer tastes and preferences change, the demand for a good or service can also change.
- **Consumer expectations:** Consumer expectations about future prices can also affect the demand for a good or service. If consumers expect prices to rise in the future, they may be more likely to buy the good or service today.
- **Number of buyers:** The demand for a good or service can also be affected by the number of buyers in the market. An increase in the number of buyers can lead to an increase in demand.

Examples of Determinants of Demand

- **Consumer income:** If consumer income increases, the demand for automobiles is likely to increase. This is because automobiles are a normal good, and as consumers have more money, they are more likely to buy them.
- **Prices of related goods:** If the price of gasoline increases, the demand for public transportation is likely to increase. This is because gasoline and public transportation are substitute goods.

- **Consumer tastes and preferences:** If there is a new fashion trend for a particular type of clothing, the demand for that type of clothing is likely to increase. This is because consumer tastes and preferences have changed.
- **Consumer expectations:** If consumers expect the price of computers to fall in the future, they may be less likely to buy a computer today. This is because consumers are waiting for the price to fall before they make a purchase.
- **Number of buyers:** If the population of a country increases, the demand for housing is likely to increase. This is because there are more people who need housing.

Q. No. 6: Define the term law of theory of supply with respect to the price and also discuss the determinants factors of supply with each determinant example.

Law of Supply

The law of supply is an economic principle that states that there is a direct relationship between the prices of a good or service and the quantity supplied of that good or service, *ceteris paribus* (all other factors held constant). In other words, as the price of a good or service increases, the quantity supplied increases, and vice versa.

This relationship can be represented by the following formula:

$$QS = f(P)$$

Where:

- QS is the quantity supplied of the good or service
- P is the price of the good or service
- f() is a function that represents the relationship between QS and P

The law of supply is based on the principle of producer rationality. Producers are assumed to make decisions about how much of a good or service to produce in order to maximize their profits. When the price of a good or service increases, producers will be more likely to produce more of that good or service, as they will be able to sell it for a higher price.

Determinants of Supply

In addition to price, there are several other factors that can affect the supply of a good or service. These factors include:

- **Input costs:** The cost of inputs, such as labor, capital, and raw materials, can affect the supply of a good or service. If the cost of inputs increases, it will cost more for producers to produce the good or service, and they will be less likely to produce as much of it.
- **Technology:** Technological advancements can increase the efficiency of production, which can lead to an increase in the supply of a good or service. For example, if a new machine is invented that can produce widgets more quickly, it will cost less for producers to produce widgets, and they will be more likely to produce more of them.
- **Government policies:** Government policies, such as taxes and subsidies, can also affect the supply of a good or service. For example, if the government imposes a tax on a particular good or service, producers will be less likely to produce that good or service, as it will be less profitable for them to do so.
- **Natural disasters:** Natural disasters, such as floods, droughts, and hurricanes, can damage or destroy production facilities, which can lead to a decrease in the supply of a good or service.
- **Expectations of future prices:** Producers' expectations about future prices can also affect the supply of a good or service. If producers expect the price of a good or service to increase in the future, they may be more likely to produce more of that good or service today, in order to take advantage of the higher price.

Examples of Determinants of Supply

- **Input costs:** If the price of gasoline increases, the cost of transportation for farmers will increase. This will increase the cost of producing food, and farmers may be less likely to produce as much food.
- **Technology:** If a new fertilizer is developed that increases crop yields, farmers will be able to produce more food with the same amount of land. This will increase the supply of food.
- **Government policies:** If the government imposes a tariff on imported widgets, the price of widgets will increase. This will make it more profitable for domestic widget producers to produce widgets, and they will be more likely to produce more of them.
- **Natural disasters:** If a hurricane destroys a widget factory, the supply of widgets will decrease.
- **Expectations of future prices:** If farmers expect the price of wheat to increase in the future, they may be more likely to plant more wheat today. This is because they will be able to sell the wheat for a higher price in the future.

Q. No. 7: Discuss the law of diminishing marginal utility. Also plot on the paper as graph to show the total utility and marginal utility curve with the given below data.

(1) Tacos Consumed Per Meal	(2) Total Utility, Utils	(3) Marginal Utility, Utils
0	0	10
1	10	8
2	18	6
3	24	4
4	28	2
5	30	0
6	30	0
7	28	-2

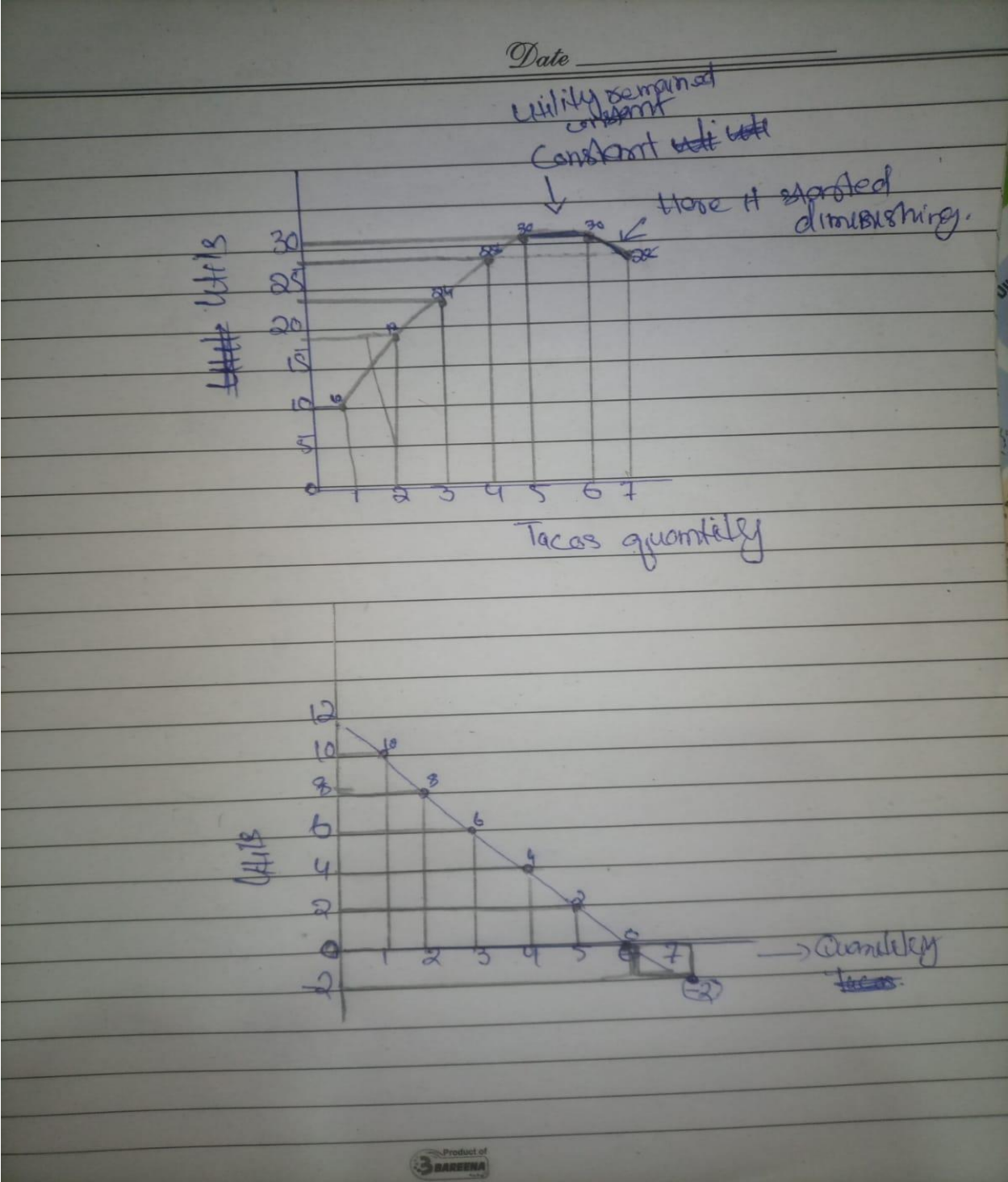
The Law of Diminishing Marginal Utility is a fundamental concept in economics that explains the behavior of consumers when it comes to consuming goods and services. It states that as a consumer consumes additional units of a good or service while keeping the consumption of other goods constant, the additional satisfaction or utility (pleasure, satisfaction, or benefit) derived from each successive unit decreases. In other words, the more you consume of a particular product, the less additional satisfaction you gain from each additional unit.

This concept can be illustrated with the following example: Consider a person who is very thirsty. The first glass of water they drink will provide them with a great deal of satisfaction, as it will quench their thirst and alleviate their discomfort. However, as they continue to drink more water, the satisfaction they derive from each additional glass will decrease. By the time they have consumed several glasses of water, the marginal utility

of each additional glass will be very low, and they may even start to feel uncomfortably full.

The data in the image shows the relationship between the number of tacos consumed and the total utility and marginal utility of each taco. As the number of tacos consumed increases, the total utility increases, but the marginal utility decreases. This is consistent with the law of diminishing marginal utility.

Here is a graph of the data that shows the total utility and marginal utility curves:



As you can see, the total utility curve is upward-sloping, but it is concave downward. This means that the marginal utility is decreasing as the number of tacos consumed increases.

The law of diminishing marginal utility has several important implications for economics and consumer behavior. It helps to explain why people are willing to pay more for the first few units of a good or service than they are for additional units. It also explains why people tend to consume a variety of goods and services rather than focusing on just one.

Key points related to the Law of Diminishing Marginal Utility:

- 1. **Diminishing Returns**:** The law reflects the idea of diminishing returns in consumption. Initially, as consumers acquire more of a good or service, they experience increasing utility because they are satisfying their most important or urgent needs. However, as they continue to consume, the extra units provide less additional satisfaction because they are likely to be used for less urgent needs.
- 2. **Rational Decision-Making**:** The law of diminishing marginal utility is a key element of rational consumer decision-making. Consumers aim to allocate their limited resources (money and time) in a way that maximizes their overall well-being or utility. This means they will continue consuming a good or service until the marginal utility (extra satisfaction) equals the price they have to pay.
- 3. **Budget Allocation**:** Consumers make choices based on utility and budget constraints. When the marginal utility of a good falls below its price, consumers are less likely to purchase more of that good and may shift their spending to other products or services with higher marginal utility.
- 4. **Real-World Examples**:**
 - Consider someone eating pizza. The first slice may be very satisfying, the second less so, and by the time they reach the fifth or sixth slice, the additional satisfaction from each new slice is minimal.

- Similarly, a person buying a new pair of shoes may find that the first pair provides the most utility, while subsequent pairs may be for different occasions or may not provide as much additional satisfaction.

5. **Exceptions:** While the law of diminishing marginal utility generally holds true, there are exceptions. Some goods, like addictive substances, may not exhibit diminishing marginal utility because they can lead to cravings that don't decrease with consumption. Additionally, some experiences or goods may provide increasing marginal utility due to the anticipation of enjoyment or the desire for variety.

6. **Policy Implications:** The law of diminishing marginal utility has important implications for various economic and public policy areas. For instance, it's relevant to discussions on progressive taxation, price discrimination, and government assistance programs, as it helps to understand how consumers prioritize their spending to maximize well-being.

In summary, the Law of Diminishing Marginal Utility is a central concept in economics that highlights the diminishing additional satisfaction a consumer receives as they consume more of a particular good or service. It plays a vital role in explaining consumer behavior, rational decision-making, and resource allocation, and it has implications for various economic and policy-related considerations.

Q. No. 8: The Consumer behavior is an important aspect for driving the demand for market. Discuss.

Consumer behavior plays a crucial role in driving market demand. Understanding consumer behavior helps businesses make informed decisions about product development, marketing strategies, and pricing. By understanding the factors that influence consumer decisions, businesses can effectively tailor their offerings to meet consumer needs and preferences.

Key factors influencing consumer behavior:

- 1. Demographics:** Consumer demographics, such as age, gender, income level, education, and location, play a significant role in shaping purchasing decisions. Businesses can target specific demographics with tailored marketing messages and products to enhance their appeal.
- 2. Psychological Factors:** Consumer psychology encompasses motivations, emotions, and attitudes that influence decision-making. Understanding the psychological drivers of consumer behavior helps businesses create products that resonate with emotions, aspirations, and lifestyles.
- 3. Social Influences:** Social factors, including cultural norms, peer groups, and family dynamics, significantly impact consumer choices. Businesses can leverage social media, influencer marketing, and community engagement to influence consumer behavior and build brand loyalty.
- 4. Economic Factors:** Economic factors, such as disposable income, inflation, and economic trends, influence consumer spending patterns. Businesses need to adapt their pricing strategies and product offerings to align with changing economic conditions.
- 5. Situational Factors:** Situational factors, such as time constraints, shopping environment, and product availability, can influence immediate purchase decisions. Businesses can optimize store layouts, product placement, and online shopping experiences to enhance the customer experience.

Impact of consumer behavior on market demand:

- 1. Demand Forecasting:** Understanding consumer behavior patterns allows businesses to accurately forecast demand for their products and services. This helps them optimize production levels, inventory management, and resource allocation.
- 2. Product Development:** Insights into consumer needs and preferences guide product development decisions. Businesses can identify market gaps, develop innovative features, and tailor products to specific consumer segments.
- 3. Marketing Strategies:** Consumer behavior analysis informs effective marketing strategies. Businesses can identify the right channels, messaging, and promotions to reach their target audience and influence purchasing decisions.
- 4. Pricing Strategies:** Understanding consumer price sensitivity and willingness to pay helps businesses determine optimal pricing strategies. They can balance profit maximization with consumer affordability and price competitiveness.
- 5. Customer Relationship Management:** Consumer behavior data enables businesses to build strong customer relationships. Personalized interactions, loyalty

programs, and targeted customer service can enhance customer satisfaction and retention.

In conclusion, consumer behavior is a dynamic and complex aspect of the market that significantly influences demand patterns. Businesses that effectively understand and respond to consumer behavior trends are well-positioned to achieve sustainable growth and success.

With best wishes