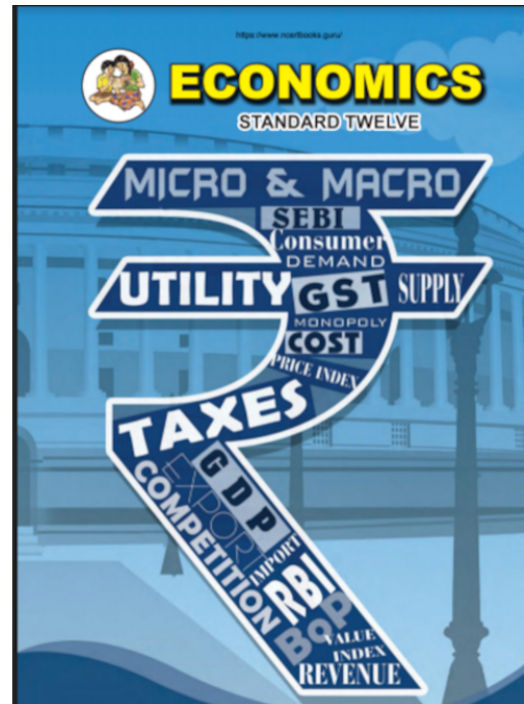


Maharashtra Board Solutions Class 12 Commerce:

Chapter 2-Utility Analysis

Class 12 - Chapter 2 Utility Analysis



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Maharashtra Board Solutions Class 12

Commerce: Chapter 2-Utility Analysis

Class 12:Economics Chapter 2 solutions. Complete Class 12 Economics Chapter 2 Notes.

Maharashtra Board Solutions Class 12 Commerce: Chapter 2-Utility Analysis

Maharashtra Board 12th Economics Chapter 2, Class 12 Economics Chapter 2 solutions

1. Complete the following statements by choosing the correct alternatives.

Question 1.

In the law of diminishing marginal utility, Alfred Marshall assumes that marginal utility of money

- (a) increases**
- (b) remains constant**
- (c) decreases**
- (d) rises and then falls**

Answer:

- (b) remains constant**

Question 2.

As per the law of diminishing marginal utility, measurement of utility is assumed to be

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- (a) ordinal
- (b) cardinal
- (c) both ordinal and cardinal
- (d) none of the above

Answer:

- (b) cardinal

Question 3.

MU of the commodity becomes negative when TU of a commodity is

- (a) rising
- (b) constant
- (c) falling
- (d) zero

Answer:

- (c) falling

Question 4.

Point of satiety means

- (a) TU is rising and MU is falling
- (b) TU is falling and MU is negative
- (c) TU is maximum and MU is zero
- (d) MU is falling and TU is rising

Answer:

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(c) TU is maximum and MU is zero

Question 5.

When MU is falling, TU is

- (a) rising
- (b) falling
- (c) not changing
- (d) maximum

Answer:

- (a) rising

2. Choose the correct option:

Question 1.

Group 'A'	Group 'B'
1. Time utility	(a) Transportation
2. Place utility	(b) Blood bank
3. Service utility	(c) Mobile phone
4. Knowledge utility	(d) Doctor
	(e) Music

Options :

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(1) 1 – d, 2 – b, 3 – a, 4 – c.

(2) 1 – b, 2 – a, 3 – d, 4 – c.

(3) 1 – a, 2 – b, 3 – e, 4 – d.

(4) 1 – b, 2 – c, 3 – d, 4 – e.

Answer:

(2) 1 – b, 2 – a, 3 – d, 4 – c.

Question 2.

Statements Indicating consumer equilibrium:

a) MU is greater than price

b) MU is equal to price

c) MU is less than price

d) Price is less than one

Options:

I) a and b

II) a, b,c and d

III) a,b and c

IV) only b

Answer:

IV) only b

3. Identify and explain the concept from the given illustrations.

Question 1.

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Salma purchased sweater for her father in winter season.

Answer:

Concept: Time utility.

Explanation : When utility of a commodity increases during a particular season it is called time utility.

Utility of sweater increases in winter season.

Question 2.

Nilesh purchased ornaments for his sister.

Answer:

Concept: Possession utility.

Explanation : When the ownership of a product changes from seller to buyer, it is called possession utility.

In the given example, ornaments are purchased by Nilesh for his sister. Ownership of a product changed, so it is an example of possession utility.

Question 3.

Kavita consumed five units of oranges one after the other.

Answer:

Concept: Successive consumption.

Explanation : To experience the law of DMU, there should be consumption of units of commodity, without time gap. It is called successive consumption.

The given example explains that five oranges are consumed by Kavita one after another without interval of time.

Question 4.

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Bhushan refused to eat fifth chapati after eating four chapatis.

Answer:

Concept: Disutility.

Explanation : When the want is fully satisfied, a consumer realises full satisfaction i.e. point of satiety.

But, beyond this point, he experiences negative utility. So, he refuses to consume any more unit of commodity.

If consumption continues, it results into disutility.

Question 5.

Lalita satisfied her want of writing on essay by using pen and notebook.

Answer:

Concept: Utility.

Explanation : Utility is want satisfying capacity of a commodity.

The given example explains that, Lalita's want of writing an essay can be satisfied with the help of pen and note-book.

4. Observe the given table and answer the questions:

Units of Com. 'X'	TU Units	MU Units
1	6	6
2	11	5
3	15	4
4	15	0

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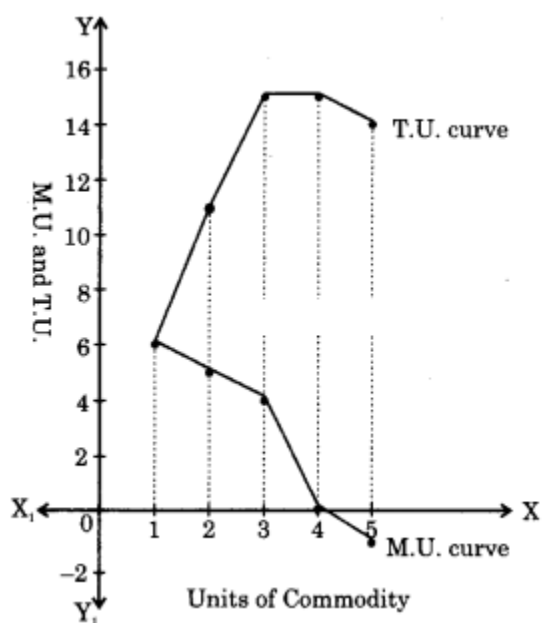
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-1

- 1) Draw total utility curve and marginal utility curve.
- 2) a) When total utility is maximum marginal utility is
- b) When total utility falls, marginal utility becomes

Answers:

1.



2. Zero
3. Negative
5. Answer in detail:

Question 1.

State and explain the law of diminishing marginal utility with exceptions.

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OR

State and explain the law of DMU? Explain its assumptions.

Answer:

Law of Diminishing Marginal Utility :

(A) Introduction:

The law of diminishing M.U. explains economic behaviour of a rational consumer.

The law was first proposed by Prof. Gossen and further explained in detail by Prof. Alfred Marshall in his book “Principles of Economics” published in 1890.

The law of DMU is universal in nature. It indicates common consumer's behaviour that Marginal Utility diminishes with reduction in the intensity of want.

(B) Statement of the Law :

According to Prof. Alfred Marshall, “Other things remaining constant, the additional benefit which a person derives from a given increase in his stock of a thing, diminishes with every increase in the stock that he already has”.

In simple words, law of DMU can be stated as follows :

“Other things being the same, MU goes on diminishing with every successive unit of a commodity consumed.”

Thus, the law of DMU explains that, the more of a thing you have, the less you want to have more of it.

In short, as consumption of identical units of commodity increases, MU diminishes.

(C) Assumptions of the law of DMU :

Assumptions are those conditions which are necessary for the validity of the law. They are as follows :

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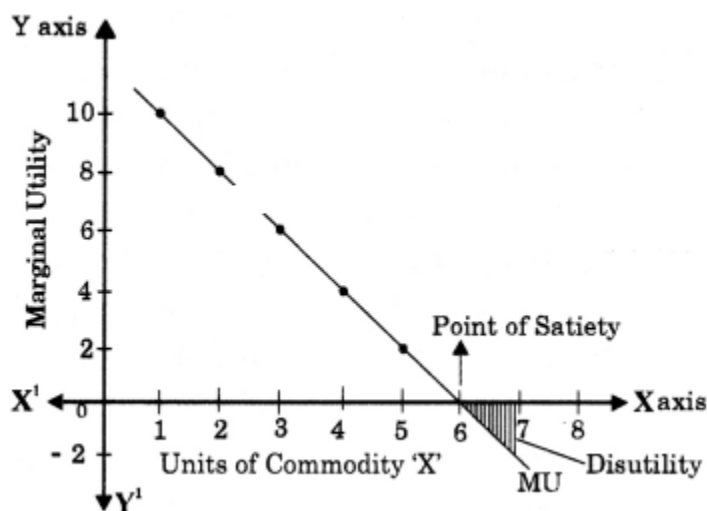
- **Cardinal Measurement:** The law assumes that utility can be measured cardinally i.e. in numbers. So, it is possible to express and compare the utility derived from each unit of commodity consumed.
- **Homogeneity :** It is assumed that all the units of commodity consumed are homogeneous or same. They are identical in case of size, shape, taste, colour, flavor, etc.
- **Rationality :** A consumer is assumed to be rational. His behaviour is normal from economic's point of view. It means, he tries to get maximum satisfaction.
- **Continuity :** All units of commodity are consumed successively, one after another, without time interval.
- **Reasonability :** The law assumes that, all the units of commodity consumed are reasonable in size. The unit of measurement is neither too big nor too small e.g. a cup of tea, glass of water, etc.
- **Divisibility :** A commodity is assumed to be divisible. So it is possible to divide the units of commodity in a proper size.
- **Constancy :** It is assumed that related factors like income, taste and preference, habits, choice of a consumer remain constant. MU of money is also assumed to be constant.
- **Single want:** A given commodity is used to satisfy a single want of a person. So that it is possible to experience full satisfaction from a single want.
- **Schedule and Diagram :**
The law can be explained with the help of following schedule and diagram :

Units of Commodity	Marginal Utility (M.U)
1	10
2	8
3	6
4	4
5	2
6	0

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The above given schedule shows that MU goes on diminishing with an increases in units of commodity consumed.

Graphical Presentation :



In the above given diagram, X-axis indicates units of commodity and Y-axis measures marginal utility.

Various points are plotted on the graph which indicates MU derived from each unit } of commodity consumed.

When all these point are joined, we get MU curve. It slopes downward from left to right. It shows that MU diminishes as consumption of a commodity increases.

The shaded portion of the diagram shows negative utility. It is because, beyond a certain level, further consumption of a commodity results into disutility.

(E) Exceptions to the law of Diminishing M.U.

Exceptions are those cases for which the law is not applicable. They are as follows :

1. Hobbies
2. Miser

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3. Addictions
4. Power
5. Money
6. Reading

They are explained as under :

(1) Hobbies : The law of DMU is not applicable in case of collection of stamps, coins, rare paintings, etc. It is because, when its stock increases, M.U. may increase because it gives more and more satisfaction.

However, it violates the assumptions like homogeneity and continuity.

(2) Miser : For a miser, every additional rupee gives him more and more pleasure.

So, when the stock of money increases, MU of money tends to rise.

However, the behavior of a miser is irrational. It violates the assumption of rationality.

(3) Addictions : It is said that, the level of intoxication increases for drunkard with every additional consumption of liquor. It may increase MU for him.

This condition is similar to most of the addictions.

Here again, the assumptions like rationality and continuity are violated.

(4) Power: It is an exception to the law of DMU because, when a person acquires power, his craze for power increases MU from power. As a person gets power, he desires to have more and more of it.

But, it violates the rationality, assumption.

(5) Money : Money is used as a medium of exchange. It helps to buy goods to satisfy human want. So MU of money increases with an increase in its stock.

MU of money never becomes zero. The law holds true to money too. MU of money declines slowly as its stock increases. So MU of money is more for poor than rich people.

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(6) Reading : When a person reads more and more, he gets deeper and deeper knowledge so MU of reading tends to increase. Similarly the law does not hold true in case of music, dance, etc.

However, assumptions like continuity, homogeneity, etc. are violated.

The law of DMU is universal in nature. These cases are not real exceptions as they violate some assumptions.

So, it is said that, there are no real exceptions to the law of DMU.

Intect Questions

Try this (Textbook Page 8)

Make a list of 10 commodities which satisfy your wants.

Answer:

Book, pen, mobile, foot-wear, watch, umbrella, bag, dress, bed sheet, soap.

Try this (Textbook Page 8)

Make a list of 10 commodities which (satisfy the wants of particular individuals performing specific activities. For example, A chalk has utility for a teacher.

Answer:

- A stethoscope has utility for a doctor.
- A net has utility for a fisherman.
- A thermometer has utility for a nurse.
- A cow has utility for a farmer.
- Cooking gas has utility for a housewife.
- A scissor has utility for a barber.
- Wood has utility for a carpenter.
- Needle has utility for a tailor.
- Mud has utility for a potter.
- A pen has utility for a writer.

Try this (Textbook Page 10) :

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Following are the various types of utility and their respective examples. Arrange the information in the form of pairs:

Answer:

Types of utility : Time utility, possession utility, service utility and place utility.

Examples :

- A dentist giving dental treatment to a patient.
- A mountaineer using oxygen cylinder at a high altitude.
- A farmer selling rice stored in the warehouse at the end of the season.
- A retail trader purchasing 100 chairs from the wholesale trader.

Example	Type of Utility
(a) A dentist giving dental treatment to a patient.	Service utility
(b) A mountaineer using oxygen cylinder at a high altitude.	Place utility
(c) A farmer selling rice stored in the warehouse at the end of the season	Time utility
(d) A retail trader purchasing 100 chairs from the wholesale trader.	Possession utility

Try this (Textbook Page 11)

Complete the following chart :

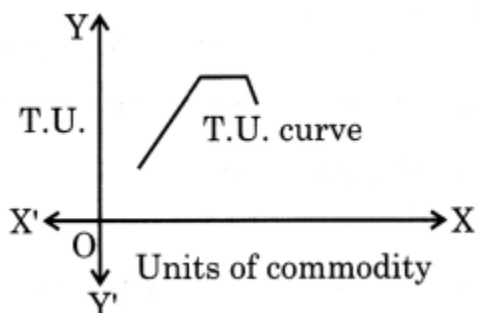
Answer:

Total Utility :

(a) Total Utility is the sum total of the individual utilities derived from the consumption of all units of good.

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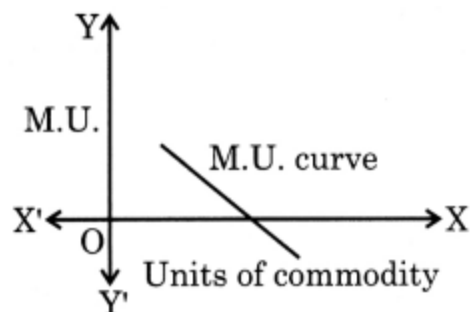
- (b) Total Utility increases at a diminishing rate.
- (c) At a point of satiety, Total Utility is maximum.
- (d) Total Utility declines if consumption continues.
- (e) Total Utility determines value-in-use of a commodity.
- (f) Total Utility is always positive.



Marginal Utility :

- (a) Marginal Utility is the addition made to the Total Utility from every additional unit consumed.
- (b) Marginal Utility goes on diminishing.
- (c) At a point of satiety, Marginal Utility = 0
- (d) Marginal Utility becomes negative if consumption continues.
- (e) Marginal Utility determines value-in-exchange of a commodity.
- (f) Marginal Utility can be positive, zero or negative.

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Try this (Textbook Page 14) :

Write an informative note on the paradox of values along with examples.

Answer:

The paradox of values –

The concept of value paradox is introduced by Adam Smith.

The term value has two meanings

- (i) Value in use
- (ii) Value in exchange

Some goods have greater value in use but the smaller value in exchange e.g. water.

However, some goods have smaller value in use but a greater value in exchange e.g. diamond.

So, the paradox of value is also called a water-diamond dilemma.

Greater value in use denotes high total utility whereas, greater value in exchange shows high marginal utility.

Thus, the concept paradox of value is very useful to understand the concepts of utility i.e., Total Utility & Marginal Utility.

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The Maharashtra State Board of Secondary and Higher Secondary Education or MSBSHSE (Marathi: महाराष्ट्र राज्य माध्यमिक आणि उच्च माध्यमिक शिक्षण मंडळ), is an **autonomous and statutory body established in 1965**. The board was amended in the year 1977 under the provisions of the Maharashtra Act No. 41 of 1965.

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The Maharashtra government established the Maharashtra State Bureau of Textbook Production and Curriculum Research, also commonly referred to as Ebalbharati, in 1967 to take up the responsibility of providing quality textbooks to students from all classes studying under the Maharashtra State Board. MSBHSE prepares and updates the curriculum to provide holistic development for students. It is designed to tackle the difficulty in understanding the concepts with simple language with simple illustrations. Every year around 10 lakh students are enrolled in schools that are affiliated with the Maharashtra State Board.

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