UTILIY THEORY

Two types of utility theory:

- 1. Law of Diminishing Marginal utility
 - 2. Law of Equi Marginal utility

Law of diminishing utility

What is utility?

The want satisfying power of a commodity is termed as utility. Economics basically deal with the problem of scarcity. Thus the resources are to be allocated efficiently. So utility means how an individual & economies aim to gain optimal satisfaction in dealing with scarcity

Example: when a person is hungry, the only thing he thinks about is food. Thus the food has that satisfying power and the satisfaction that one gets from eating the food is termed as utility

Types

Total utility —The aggregate sum of satisfaction and benefit that an individual gains from consuming a given amount of goods and services

Marginal utility —It is the additional satisfaction or amount of utility gained from the consumption of extra unit of the commodity

Definition

- The law of diminishing marginal utility describes a familiar and fundamental tendency of human behavior.
- "The law of diminishing marginal utility states that, "as a consumer consumes more and more units of a specific commodity, utility from the successive units goes on diminishing".

ASSUMPTIONS OF THE LAW

- All the units of the commodity must be same in all respects.
- The unit of the good must be standard.
- Consumer's taste or preference must remain same during the period of consumption.
- There must be continuity in consumption.
- The mental condition of the consumer must remain normal during the period of consumption.

EXAMPLE; Suppose a person eats Bread. 1st unit of bread gives him maximum satisfaction when he will eat second bread his total satisfaction would increase. But the utility added by the second bread (MU) is less than the 1st bread. His total utility and marginal utility can be put in the form of following schedule.

SLICES OF BREAD	TOTAL UTILITY	MARGINAL UTILITY
0	0	-
1	70	70
2	110	40
3	130	20
4	140	10
5	145	5
6	140	-5

Example

Explanation of the Law:

Suppose a person is thirsty and the price of water is zero. He takes one glass of water which gives him great satisfaction. We can say the first glass of water has great utility for him.

He then takes second glass of water. The utility of the second glass of water is less than that of first glass of water. The utility declines because the edge of his thirst has been blunted to a great extent.

If he drinks third glass of water, the utility of the third glass will be less than that of second and so on. The utility goes on diminishing with the consumption of every successive glass of water till it drops down to zero.

It is the position of consumer's equilibrium or maximum satisfaction.

If the consumer is forced further to take a glass of water, it leads to disutility causing total utility-to decline. The marginal utility will become negative. A rational consumer will stop taking water at the point at which marginal utility becomes negative even if the good is free.

In short, when a good is free, a consumer increases consumption of a good so long its additional units provide him positive marginal utility.

The following table will make the law of diminishing marginal utility more clear.

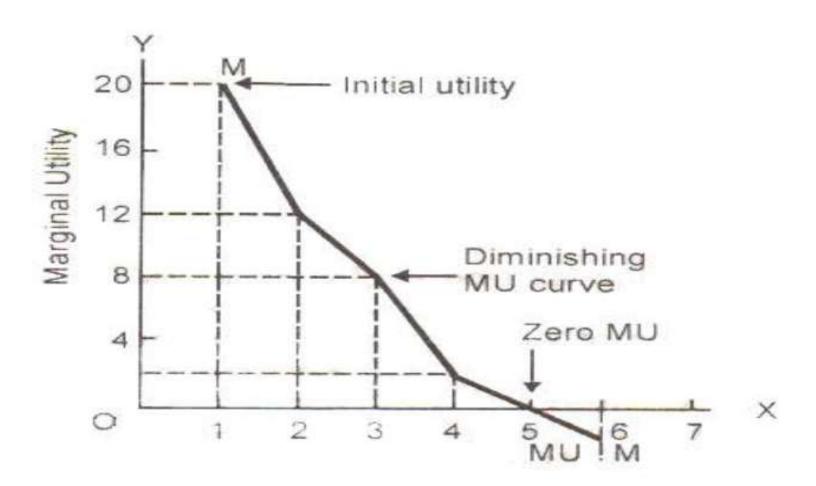
Units	Total Utility	Marginal Utility
1 st glass	20	20
2 nd glass	32	12
3 rd glass	40	8
4 th glass	42	2
5 th glass	42	0
6 th glass	39	-3

From the above table,

It is clear that in a given span of time :-

- The first glass of water to a thirsty man gives 20 units of utility.
- When he takes second glass of water, the marginal utility goes down to 12 units.
- When he consumes fifth glass of water, the marginal utility drops down to zero and if the consumption of water is forced further from this point, the utility changes into disutility (-3).
- Here it may be noted that the utility of the successive units consumed diminishes not because they are of inferior in quality than that of others. We assume that all the units of a commodity consumed are exactly alike.

The graph will make the law of diminishing marginal utility more clear.



In the above figure,

OX we measure units of a commodity consumed and OY is shown the marginal utility derived from them. The marginal utility of the first glass of water is called initial utility. It is equal to 20 units. The MU of the 5th glass of water is zero. It is called the satiety point. The MU of the 6th glass of water is negative –3.

Tie MU curve here lies below the OX axis. The utility curve MM falls from left down to the right showing that the marginal utility of the success units of glasses of water is falling.

 When a good is scarce and so priced the consumer will increase the consumption of a commodity up to the extent where his marginal utility for the good equals the price which he has to pay, i.e. Mu = P.

Limitations of the law

Case of intoxicants.

(Consumption of liquor defies the law for a short period. The more a person drinks, the more he likes it)

Application to money.

(The law equally holds good for money. It is true that more money the man has the more greedy)

Rare collections.

(If there are only two diamonds in the world, the possession of 2nd diamond will push up the marginal utility.)

Example: collection of the rare stamps and coins

- Utility is subjective
- Cardinal measurement of utility is not possible
- Every commodity is not an independent commodity
- Marginal utility can't be estimated for all commodities