MODULE III CONSUMER BEHAVIOUR

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Consumed Behaviour

consumer behaviour is the study of how Individual customers, groups or organizations select, buy ruse & dispose ideas, goodspoop services to satisfy their needs & wants. It lefers to the actions of the consumers in the market-place & the anderlying motives for those actions.

Utility

The want satisfying power of a commodity is its utility. It refers to the degree of pleasure or satisfaction that an individual receives from an economic act.

Cardinal Utility Analysis & Ordinal Utility Analysis

Condinal utility is the idea that economic welfare can be directly observable to be given a value ithis theory was proposed by Affred Mashall.

*The theory is important to rational choice theory,

*It implies that setisfaction or whility of a commodity can be supported with a numeric value.

Osclined utility theory was proposed by J.R. Hicks which is based states that utility /satisfaction of a commodities can be sunked but utility cannot be cardinally calculated or given exact value.

the lanking of utility is based on ordinal scale.

Law of Equi-Marginal Utility / Gossen's Second haw

lister assertation that an economic agent will allowate his or her expenditures such that the section of the marginal utility of each good [service to its price is equal to that for every other good! service.

* It stys explains how consumer spends this dimited income on various commodifies to get maximum sectisfaction.

.. * The law is also known as Law of Substitution

Indifference Curve

An indifference curve connects point on a graph lepusenting different quantities of 2 goods, points between which as worsumer is indifference.

*Any combinations of the two products indicated by the curve will provide the consumer with equal levels of satisfaction, and the consumer has no preference for one bundle over another.

* the main use of indifference curves is the sepresentation of protentially observable demand patterns for individual consumers over commodity hundles.

Goody

12 12 13

-> Developed by TR Hicks

Eq RCOD Allen. Hence this

is also known as Hickstan

analysis

-> 16 we is also called iso willty cure / equal willty cure.

There are many indifferent curves in this graph.

A collect of 16 illustrated graphically is referred to as an indifference map.

* slope of 10 curve is MRS. A tall in MRS reads to convex shape of 10 curve.

Properties:-

- of commodity quantities, i.e. the possibility of having negative quantity of good is ignored.
- one good increases, total statisfaction would increase if not offset by a dureas in the any opnsamed of the other good. The negative slope of Ic wire implies that MRS is always positive.
 - (3) All points on an IC cuve are ranked equally preferred & ranked either more or less preferred than every other point. They are represented to be complete.
 - (4) Convex Shaped. Ic curves will be either strought or bulge toward theorgin of Ic curve.
 - (5) Higher Ic curve represents higher level of satisfaction
 - (6) Ic curves every cross each other.

haw of Dimini shing Mauginal Utility

how of Diminishing Marginal Utility states that all else equal as consumption increases the marginal attity derived from additional unit declines.

* It is derived as the change in utility as an additional unit is consumed.

	Units of commodity	Total Utility	Mouginer
	1	25	25
	2	42	17
	3	চচ	13
	4	চচ	O
	त	50	-F

- that marginal atility dulines as the amount of commodity consumed increas.
- * when total utility increases at a diminishing sate,
 MR declines.
- * when to tal utility is maximum, mr is 0.

 * when total utility derreases, mr becomes negative.
- The demand were is downward sloping because of the haw of Diminishing Manginal atility.
- -> Marginal Rate of Substitution CMRS) is the rate at which a consumer would the willing to forgo a specific quantity of one good for more units o, unother good maintaining same level of satisfaction

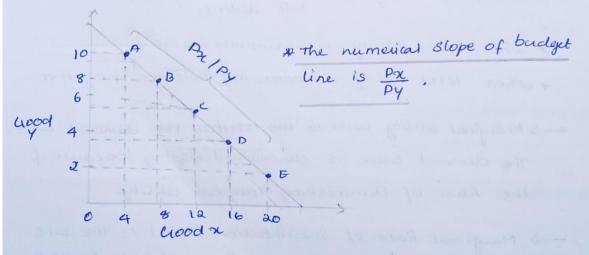
MRS = Units of product a willing to sairfice units of product B willing to gain

Budget Line

A budget line is the graphical representation of all Possible combinations of 2 commedities that can be bought with the limited income of the consumer.

* the price of each of these combinations is equivalent to the income of the consumer.

* Budget line is calle 'Price line'.



Budget set or opportunity set includes all possible consumption bundles that someone can afford given the prices of goods and the person's income level.

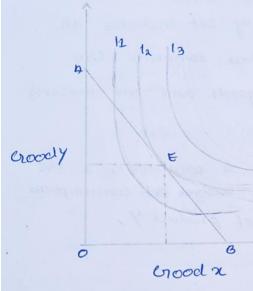
* Assuming M the income of a consumer, & the quantity of product x in the brodget set consumption bundles and y as the qty of product Y,

(x,4) & m

Consumer's Equilibrium Using Budge Line Analysis

consumers equilibrium defeus to a situation, in which a consumer decives maximum satisfaction, with no Intention to change it and subject to given prices and his given income. The point of maximum satisfaction is achieved by studying Indifference map & burdget line together.

* Budget line is Langento 12 cueve



*the point where the Budget line AB intersects
It were 12 is the Propoint of maximum satisfaction or consumer equilibrium.

*Here MRSxy = Px | Py

* Here MRS xy = Pr | Py

* MRS continuously fails

to give 1c curve its concave

shape i

Although satisfaction is comparitively less.

Although satisfaction is higher in 13, it is

unattainable with the whent income of consumer.

Revealed Preference theory

Revealed Preference theory proposed by Paul A Samuelson is a method of analysing choices made by incliniduals, mostly used for companing the influence of policies on consumer behaviour.

*Revealed preference models assume that the preferences of consumers can be severaled by their purchasing habits.

* the theory has i't base in Ordinal Utility.

Assumptions! -

- * threve is only a goods in the market
- of the products are constant.
- * Bessed on ordinal whility analysis

 * Consumer is assumed to be lectional. He profess

 the bundles of goods that give him more salisfaction.
- * Transi-firity. If in any situation ADB & BJC, then
 AJC
- * Consistency of choice. If the consumer chooses bundle

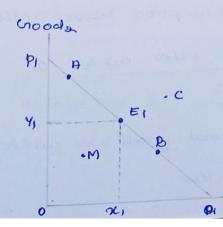
 A in a situation where bundle B was also available

 to him he will not choose B over the in any

 81'tuation.

if A > B, then B *A

*Samuelson's se veciled preference theory is behaviousistic explanation of consumer's demand. It set a now cliamonsion in studying various aspects of consumerism by shifting from psychological to behaviousistic emplanation.



Pi is the Price line: \mathcal{H} asis represents Goods & Y one's Croods. At point E1, $Y_1 = x_1$. This is also his equilibrium point.

#At M, satisfaction offill be less so the consumer tend to avoid it.

- * At A gity of Y will be more but he has to sacrifice Some units of x.
- * DE B, Satisfaction from x will increase but some units of 4 must be forgone.
- * HTM, satisfaction will be higher even more than EI, but it is not feasible for the consumer due to limited Income.

Income Consumption Cure

when there is an increase in the income of
the consumer, his budget line 8 hifts to the right increase
in income enables the consumer to move to higher
and higher Icarres & choose a new optimum
bundle of x, & x,

- The locus of successive optima (equilibrium)

 points is the income consumption curve or ICL.

 # ICC is also called Income offer curve! or

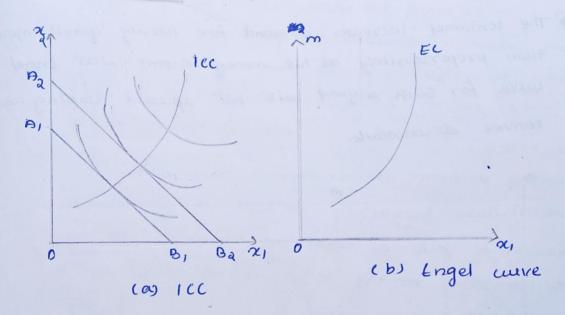
 I income expansion poets!
- * If both or, & x2 are normal goods, Icc will be upward sloping and positive.

*If we restrict ourselves to x_i , & consider the optimal choice at each set of prices & income we get demand function for x_i .

That is $x_i = f_i(p_i, p_a, m)$.

Preport good: $x_i = f_i(p_i, p_a, m)$.

Engel cure.



keeping P, E, P2 constant and demand changes es income changes, we can active at engel curve.

-> Engel curve is essentially an Income demand

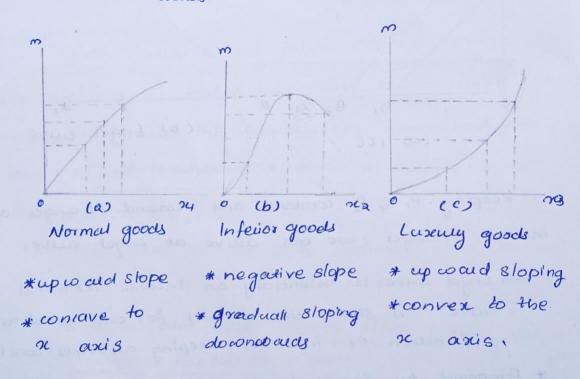
curve "it shows the demand for one good as

a function of income theeping ellprices constant

* Proposed by Ernest Engel

- -> For normal goods, Engel wave how a positive gradient.

 As income increases, the gity demanded increases. It
 has a positive slope
 - In case of infevior goods, length every has a negative slope. Bs income increases, consumers buy less of the inferior goods as they can buy better products.
- The consumer increases demand for luxuly goods more their proportionately as his money income eiser tragel were for such a good will be appeared sloping and convex do concoards.



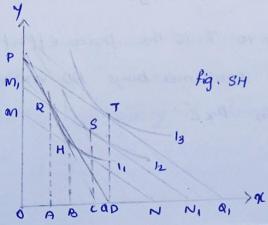
Hicks & Slutsky Models of Substitution

Hicks and slutsky separate the income and substitution effects of the price effect in different ways.

The seal income of the consumer increases and he semains at the same indifference curve through the substitution effect on the basis of compensating variation.

This is due to changes in the relative prices of n and y so that the increased real income of the consumer is spent in such a manner that he is heither better off nor corse off than before.

*He moves along the same IC curve from one point. of equilibrium to other through substitution effect.



-) Slutsky statistication effect tells that with the fall in price of good x, the consumer spends his increased income in such a manner that ess to buy the original quantities of A & V if he so desires and there's no change in his apposent seed income.

But the substitution effect takes place when he moves to the higher inclifference curve.

Figure SH explains the separation of income & substitution effects of the peice effect both in terms of the Hicksian method of slutsky method in case of normal goods.

- * Pa is the original budget line.

 R is the equilibrium point on 1, out which

 On of x & RA by are bought.
 - * when Pri falls, budget line extends to Pai & consumer moves to T on 13.
 - * Movement from R to 7 is the price effect which shows that consumer buys AD more of re also to fall in Px.

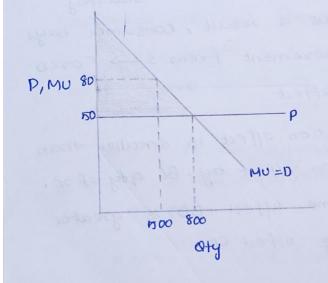
- * the line MN is deacon || to Pai so that the consumer is at the same real income level on the h at H of MN.
- * Movement from R -> H on 12 measures substitution effect. As a result, consumer buys me AB more of a. Remaining increase of BD of or 15 result of Income effect from H to T.
- *The movement from R -> S is the Slutsky Substitution effect. As a rescut, consumer bays Ar more of x & movement from 3 -> Torco of x is income effect.
- -> Hicksian substitution effect is smaller than Slutsky substitution effect by BC approfic. The Hicksian Income effect BD is greater than Slutsky income effect CD.

Consumers Supplus

Consumer's Suepius 18 the additional benefit a consumer would reveive when the price be payed for a commodity is lower their what he was willing to pay.

Alfred Moushall defines consumer surplus as "excess of price that a consumer would be willing to pay hather than go without a commodity over that which he actually pays.

* It reflects the amount of wility or goin consumers greceive when they buy products and services.



Limitations

- (1) Consumer suppply can't be measured annuately
- (2) the level of soutisfaction can very with person to person
- (3) It is not possible to measure escential goods since the consumar may spend his

entire income routher than go without it.

- from the law of diminishing marginal atility.

 The concept first came to light when James

 Tobio introduced a way to measure community werface in 1844.
- (4) Modern evonomist argue that the concept is flawed and outdated making it unfit to the current world.

Price Consumption Luve

Price consumption graph shows how a consumer's consumption choices change when price of a commodify changes. It is plotted by connecting the points at which budget line touches the relevant maximum withity IC awe.

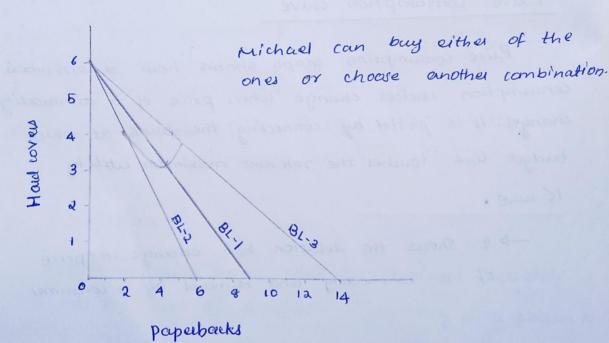
of a commodity and olimand by a consumer.

Michael hew a monthly income of \$3,000, 7%, of which he wants to spend on books. He wants to decide how many books he should buy in head co-ver & how many in paperback. A paperback costs \$20 & a head cover costs \$30.

Consumption budget of michael = \$ 210 (7% of 3,000)

Paperbacks he can buy with \$210 = 9 (0 hardrovers)

hardlovers u = 6 (0 perperbacky



If the price of paperbacks falls to \$15, michael can now punhase more paperbacks (14) with the same budget.

If the price increases to 30%, michael can holonger afford the same number of backpacks. These price movements cause michael's budget line to move along the n-anis.

* when papebacks become more empensive, michaels budget line rotates from BLI to BL-2.

**Mort the This causes him to substitute more hadrovers for papebacks such that his consumption choice becomes point A.

When paperbacks become cheaper, and the budget line moves from BL-7 to BL-3, consumption bundle sultches from B to C.