

Subject- Economics-1

SYLLABUS

B.B.A. I SEM

Subject - Economics-1

UNIT – I	Introduction to Economics: Definition, Nature and Scope of
	Economics. Micro and Macro Economics, Role of Economics in
	Decision Making.
UNIT – II	Demand Analysis and Supply Analysis: Meaning of Demand,
	Types of Demand, Law of demand, Determinants of Demand,
	Demand Function, Elasticity of demand- price elasticity of
	demand. Income elasticity of demand, Cross Elasticity of demand,
	Law of Supply, Supply Schedule, Supply Curve, Price elasticity of
	supply,
UNIT – III	Production Analysis: Production function, Types of Production
	Function, Law of Returns, Law of variable proportions, Law of
	Increasing Returns, Law of Constant Returns, Law of Diminishing
	returns, Returns to scale,
UNIT – IV	Cost and Revenue Analysis: Cost concepts, Elements of Cost,
	Relationship between Production and Cost, Average and
	Marginal cost curves, Relationship between average and
	marginal cost, Concept of revenue, Revenue Curve, Relationship
	between average and marginal revenue,
UNIT – V	Market Structures: Meaning of Market, Classification of markets,
	Perfect Competition, Imperfect Competition, Monopolistic
	Market, Oligopoly Market, and Duopoly Market.
UNIT – VI	International Tread :Balance of Payments, Concepts,
	Disequilibrium in BOP: Methods of Correction, Tread Barriers
	and Tread Strategy, Free Trade vs. Protection,



Subject- Economics-1

UNIT-I

AN OVERVIEW OF ECONOMICS

Economics is a social science. The basic function of a science is to study a certain kind of natural or social phenomenon. Economics as social science studies economic behaviour of the people and economic social phenomenon. Economics as a social science studies economic behaviour of the people and economic social phenomenon. Economics as a social science studies economic behaviour of the people and economic social phenomenon. Economics behaviour is essentially a conscious effort of the people to derive maximum gains from the use of scarce resources and opportunities available to them. Economics is, fundamentally, the study of how people allocate their limited resources to their alternative uses to produce and consumer goods and services to satisfy their endless wants or to maximize their gains. In their efforts to maximize their gains from their limited resources, people (individuals, households, firms, and the government) as producers and consumers have to make a number of choices regarding the use of their resources and spending their earnings. The need for making choices arises due to following basic facts of economics life:

- human wants are unlimited
- resources available to satisfy human wants are scarce
- people want to maximize their gains

Resources can be classified as

- (i) Natural resources (including land, space, water, minerals, forest, climate, jointly called land);
- (ii) Human resources (including man-power, its energy, talent, professional skills, and innovative ability and organizational skill, jointly called labour);
- (iii) Man-made resources (including machinery, equipments, tools, technology and building, jointly called capital). To this economists add another category of resource called entrepreneurship, i.e., those who organizes the resources and assume risk in business. Time and information are two other kinds of resources which have economic value. All these resources available to a person, society, country-howsoever rich-at any point of time are limited. Resource scarcity of resources is, in fact, the mother of all economic problems. If resources were unlimited, like human wants, there would be no economic problem and no economics. It is the scarcity of resources in relation to human wants which forces people to make choices.

"Economics as a science studies economic behavior of the people and its consequences; it brings out cause-and-effect relationships between economic events; provides the tools and techniques of analyzing economic phenomena and the tools and techniques for predicting the consequences of economic decisions and economic events. Economics studies economic phenomena systematically and methodically. This approach to economic inquiry imparts economics the status of a 'social science'."

Science of Choice

Economics studies that aspect of the individual and society in which limited resources are used to satisfy unlimited wants. Thus, it is a science of choice and is concerned with the satisfaction of human wants. The term economics is derived from the Greek words oikos and nomos which put together mean household management. Aristotle, the famous Greek philosopher considered economics to be "the art of household management."

Economic Activities

Economic activities are concerned with how people earn their income, spend it and satisfy their wants. In other words, economic activities are related to the production and consumption of wealth in terms of goods and services to satisfy wants.

DEFINITIONS OF ECONOMICS

Economics has been defined by many economists in different ways. The various definitions of economics can be broadly classified into the following four categories, each emphasizing a particular aspect of economics study.



Subject- Economics-1

- 1. Classical or wealth definitions define economics as a study of wealth.
- 2. Neo-classical or welfare definitions define economics as a study of material welfare.
- 3. Scarcity definitions define economics as study of scarcity and choice.
- 4. Modern or growth definitions define economics as a study of changes and growth in means in relation to ends.

CLASSICAL OR WEALTH DEFINITIONS

The early economists known as the classical economists defined economics as a science of wealth. Adam smith, who was the first economist to give a scientific and systematic definition of economics in his famous book, an inquiry into the nature and causes of the wealth of nations, is widely regarded as the father of economics. Adam smith was also the first economist to present a systematic analysis of economics and formally define it as the science of wealth.

According to him, economics studies "the nature and causes of the wealth of nations." He believed that the primary objective of every country was to increase its wealth and power and pointed out that political economy (as economics was called in earlier times) deals with the acquisition, accumulation and expenditure of wealth. This means that economics studies how people earn their wealth and how they spend it. In other words, economics studies the production and consumption of wealth. Thus it is on the one side a study of wealth; and on the other, and more important side, a part of the study of man."

NEO-CLASSICAL OR WELFARE DEFINITIONS

Due to the severe criticism of the wealth definition by literary men and philosophers, economics fell into disrepute and lost all its importance till the close of the 19th century. If was, however, the neoclassical school led by Alfred Marshall which gave economics a respectable place among the social sciences by removing the misconceptions about it. The neo classicists evolved a new definition of economics which shifted emphasis from wealth to people and their welfare. These economists belonged to the neo-classical period and hence. Their definitions came to be known as neo-classical definitions. Since these economics laid emphasis on human welfare, their definitions also came to be known as welfare definitions.

The most important welfare definition was given by Alfred Marshall in his book, principles of economics, published in 1890.

According to Marshall, "Political Economy or Economics is a study of mankind in the ordinary business of life; it examines that part of individual and social action which is most closely connected with the attainment and with the use of the material requisites of well-being.

Thus it is on the one side a study of wealth; and on the other, and more important side, a part of the study of man."

SCARCITY DEFINITIONS

Prof. Lionel Robbins, a distinguished English economist from the London School of Economics, who published his book, An Essay on the Nature and Significance of Economic Science, in the year 1932, has given a more exact, scientific and precise definition of economics which is widely accepted. According to Robbins, economics is neither a study of wealth nor a study of welfare. It is the study of scarcity and choice. He defines economics in these woros:

"Economics is the science which studies human behaviour as a relationship between ends and scarce means which have alternative uses." the scarcity definition given by Prof. Robbins was supported by other economists such as A.P. Lerner, J.R. Hicks and Cassel. the definition emphasizes the following points

a. Unlimited Ends

The term ends here refers to human wants. These are unlimited in number and are capable of being distinguished in order of importance. Man is said to be a bundle of wants. The satisfaction of one want immediately gives rise to another. When the elementary wants such as food, clothing and shelter are satisfied; wants for comforts and luxuries arise. Therefore, a complete satisfaction of wants is not



Subject- Economics-1

possible. Since we cannot satisfy all our wants, we have to choose and satisfy the more important ones first.

b. Scarce Means

The wants may be unlimited but the means or resources which are available to satisfy these wants are, by nature, scarce. The word scarcity is used here in a relative sense. The mere existence of short supply does not make a commodity scarce, if there is no demand for it. As Prof. Robbins points out, bad eggs, though short in supply, are not scarce since there is no demand for them. On the other hand, food grains consisting of millions of tones may be scarce because their demand is much greater than their supply.

A commodity is said to be scarce only if its supply is less than its demand. Thus, the word scarcity is used in a relative sense. The economic problems arise because most of the goods are scarce in relation to their demand. It has been aptly remarked, "If the means are not scarce, there is no problem at all; there is Nirvana."

c. Alternative uses of means

The means are not only scarce but can be put to alternative uses. for example, a plot of land can be used to grow either rice or vegetables. Electricity can be used to run a factory or illuminate a cinema house. A lorry can carry soldiers or goods from one place to another. A ten-rupee note can be used to buy a pen or a book. Thus, scarce means have alternative uses.

Choice has to be exercised between different uses when the means are limited. When we opt for one thing we have to forgo the other. If resources had only specific uses, there would be fewer economic problems as our choices would be greatly restricted.

d. How do economic problems arise?

Economic problems arise only when all this following conditions exist simultaneously:

- Multiplicity of ends which vary in importance
- Scarcity of resources
- Alternative uses of scarce resources
- e. Science of choice

According to Robbins, economics tells us how people make use of their scarce means, having alternative uses for the satisfaction of their unlimited ends. Since this involves choice-making, economics has also been called a science of choice. Choice is the essence of economic activities. Economising is necessary to make the optimum use of resources and this forms the central problem of economics.

Thus, according to Robbins, economics is mainly concerned with scarcity and choice. The scarcity of means and multiplicity of wants are the two foundation stones on which the structure of economic science is built.

Conclusion

Robbins' definition is scientific, exact and comprehensive. It brings to light the scarcity of resources as the source of all economic problems that confront man and society. His definition enjoys universal application. It applies to all the individuals, groups and types of nations, whether capitalist or communist. In fact, even the modern growth-oriented definitions of economics are based on the scarcity definition of Robbins with slight modifications.

However, a serious defect of Robbin's definition is that it is static and not dynamic. The scarcity definition fails to take into account the revolutionary changes that have taken place during the last five to six decades. Growth occupies the centre of attention of modern economists and in recent years, their focus has shifted from scarcity to growth occupies the centre of has shifted from scarcity to growth. In a modern dynamic economy. An attempt is made to overcome the scarcity of resources with scientific and technological developments many modern writers feel that economics has ceased to be scarcity oriented and has becomes growth-oriented.

MODERN OR GROWTH-ORIENTED DEFINITIONS

'Robbins' scarcity definition was widely accepted as the best possible definition of economics for a long time. However during the last 30 years or so, economic thinking has moved away from Robbins' view.



Subject- Economics-1

Economic problems today are not just concerned with adjusting multiple ends to scarce means but also with expanding and developing these means to meet the various growing and changing ends. Thus, besides studying the theory of value or resource allocation, economics deals with how the levels of income and employment in an economy are determined. it also studies the causes of economic fluctuations to see how economic stability can be promoted.

According to Prof. Paul Samuelson, a noble prize winner in economics, "Economics is the study of how people and society end up choosing, with or without the use of money, to employ scarce productive resources that could have alternative uses- to produce various commodities and distribute them for consumption, how or in the future, among various persons and groups in society, economics analyses the costs and the benefits of improving patterns of resources use."

APPROACHES TO THE STUDY OF ECONOMICS

There are two approaches to the study of the subject matter of economics. They are:

- The traditional approach
- The modern approach

TRADITIONAL APPROACH

According to the traditional approach, the subject matter of economics has been divided into six branches. They are:

- Consumption
- Exchange
- Production

- Public finance
- Distribution
- Economic planning

CONSUMPTION

Consumption refers to the utilization of goods and services for the satisfaction of human wants. This branch studies the nature of human wants as well as the principles governing their satisfaction such as the law of diminishing marginal utility, the law of substitution, the law of family expenditure, consumer's surplus, the law of demand and the concept of elasticity of demand.

PRODUCTION

Production creates utilities so that human wants can be satisfied. Consumption is not possible without production. this branch of economics studies how people make efforts to satisfy their wants by producing wealth and how goods and services are produced by the combination of the various factors of production namely, land, labour, capital and organization. The laws of production, capital formation and the role of entrepreneurs are also studied under this branch of economics.

DISTRIBUTION

The total amount of goods and services produced annually in a country constitutes its national income. This total wealth of the country has to be distributed among the four factors of production as their share of reward for their contribution to production.

thus, this branch of economics is devoted to the study of determining rewards for the various factors of production namely land, labour, capital and organization in the form of rent, wages, interest and profit respectively. The principles which determine the share of rewards of each agent of production are dealt with in this branch. In this connection, various theories of rent, wages, interest and profit are also studied.

EXCHANGE

This branch includes the study of how goods and services are bought and sold or exchanged among people. It includes organization of markets and determination of prices under different market conditions. Exchange also involves the study of the system of money, banking, transport and communication and other aids of trade such as advertising. Exchange places goods and services in the hands of consumers, thus, enabling their consumption.



Subject- Economics-1

PUBLIC FINANCE

Public finance refers to the financial operations of the government, i.e., it deals with how the government earns income and spends it to satisfy the collective wants of society and how income and expenditure are adjusted. The instruments of public finance are taxation, public expenditure, public debt and production. Consumption and exchange but also for securing the much needed economic equality and economic growth along with stability of the economy.

The modern state being a welfare state, undertakes a number of economic activities to promote the welfare of society. This ever widening role of the state has given public finance an important place among the various branches of economics.

ECONOMIC PLANNING

Economic planning has become an important branch of economics in recent times. Economic planning involves regulation and control of the economy by a central authority so that specific socio-economic goals are attained within a certain period of time. it aims at the systematic and efficient use of the available natural and human resources of the country to accelerate economic progress.

Underdeveloped countries have adopted economic planning to achieve rapid economic development while developed countries undertake economic planning to maintain full employment along with economic stability

MICRO AND MACROECONOMICS

INTRODUCTION

Microeconomics and macroeconomics are the two major branches of modern economic theory. The terms "microeconomics" and "macroeconomics" were originated by Ragnar Firsch in 1933. The prefixes "micro" and "macro" have been derived from the derived from the Greek words micros and macros which mean "small" and "large", respectively. In other words, "micro", means individualistic and "macro" means aggregative.

MEANING OF MICROECONOMICS

Micro means a small part. Microeconomics is thus, the branch of economics which is concerned with the analysis of the behaviour of the individual (specific or particular) economic units or variables, such as an individual consumer or a producer or the price of a particular commodity, etc. Microeconomics, as Boulding puts, "is the study of particular commodities." Essentially, microeconomics is a study of particular economic organisms (consumers, producers, etc.) and their interactions, and of particular economic quantities (prices, wages, income, etc.) and their determination.

MEANING OF MACROECONOMICS

"Macro" means large or aggregate (total). Macroeconomics is thus, a branch of economics which deals with the aggregate behaviour of the economy as a whole. Macroeconomics is essentially an aggregate economics. It makes a study of the economic system in general. Macroeconomics perceives the overall dimensions of economic affairs of a country. it looks at the total size, shape and functioning of the economy as a whole, rather than working of articulation or dimensions of the individual parts. To use Marshall's metaphorical language, macroeconomics views the forest as a whole, independently of the individual trees composing it.

Macro economics studies a very large economy-wide aggregate variables like:

- National income,
- Total savings,
- Total consumption,
- Total investment,

- Money supply,
- Price levels,
- Unemployment,
- Economic growth rate, etc.



Subject- Economics-1

Let us take an example to understand the meaning of these two concepts more clearly. The human body of consists of various organs and cells each of which has some functions to perform and they are also interrelated. When we study a particular cell or organ, it will be termed as a micro study. A study of the human body as a whole will be termed as macro study.

IMPORTANCE AND USES OF MICROECONOMICS

Microeconomics has great theoretical and practical significance.

- It explains price Determination and the Allocation of Resources. It provides an understanding of the working of market mechanism in a capitalist/free enterprise economy.
- It has direct Relevance in Business Decision-making. The knowledge of price theory has its own significance in practical business decision making. It is useful to a businessman in determining the price policy. It guides him in attainment of maximum productivity through optimum allocation of his given resources. It teachers him in analysis of the costs of production and estimation of the demand for his product.
- It Serves as a Guide for Business/Production Planning. Tools of microeconomics are useful in preparing the expansion plan of a business. It is also helpful in investment decision taking by the firm.
- It Serves as a Basis for Prediction. Microeconomics theory is useful to make conditional predictions. Demand forecasting, for instance, rests on microeconomics principles of demand.
- It Teaches the Art of Economising. Microeconomic principles deal with the economizing of scarce resources and show how to use them efficiently so as to gain maximum out of minimum. Microeconomic law, like the law of substitution, shows how a consumer can maximize his satisfaction by equating the ratios of marginal utilities to the prices of different goods which he buys. Likewise, there is optimum utilization of the factors of production when their marginal products become unequal.
- It is useful in Determination of Economic Polices of the Government. For instance, in determining a tax policy the government can know the effect and incidence of a particular tax through micro-economic tools and then judge its rationality and desirability. It also provides the principle for determining the price policy for the public enterprise. Similarly, the nature of price control administered prices, and such other policy issues can be determined on the basis of relevant micro-economic analysis.
- It Serves as the Basis for Welfare Economics. Microeconomics examines the subjective satisfaction that individuals derive from consuming goods and services and from enjoying leisure, it also suggests how to eliminate wastages and have optimization of resources so as to fetch maximum social welfare which is the underlying goal of welfare economics.
- It Explains the Phenomena of International Trade. Microeconomic theories explain many aspects of international trade such as the emergence, nature and gains of international trade determination of exchange rate, impact of tariffs on prices etc.

LIMITATIONS OF MICROECONOMICS

Despite being a significant major branch of economic science and its immense usefulness in explaining economic behaviour of the individual economic units, microeconomics has inherent limitations as follows:

- Concept of Marginalism. Microeconomic theories are based on the principle of marginalism. Marginal changes are assumed in the relevant phenomena. Marginal change refers to the addition of just a single unit more. Thus, these are concepts like marginal utility, marginal cost, marginal product, marginal revenue, etc. It thus refers to a bit by bit change in the total variation.
- Unrealistic Assumption of Full Employment and Over Simplification. The entire microeconomics is based on the assumption of full employment even in a short-term analysis, which is unrealistic, by assuming full employment microeconomic theories have over simplified the conditions of reality.



Subject- Economics-1

- Pure Capitalist Model. Microeconomic theories assume laissez faire policy and pure capitalism in their behaviorist models. Today there is no pure capitalism, so most of the microeconomic theories have no significant relevance to practice.
- Incomplete explanation and misleading generalization. Microeconomics studies specific economic units separately from the rest of the whole economy. It thus explains only a part and not the whole of working of an economic system. Microeconomics thus does not furnish a complete explanation of the whole phenomenon. Again, application of deductive method in generalization from particular behaviour is often misleading. what is true for an individual may not be true for the entire system.

IMPORTANCE OF MACROECONOMICS

Macroeconomics has its unique importance:

- It explains the working of the economic system as a whole.
- It examines the aggregate behaviour of the macroeconomic entities like firms, households and the government.
- Its knowledge is indispensable for the policy-makers for formulating macro-economic policies such as monetary policy, fiscal policy, industrial policy, exchange control, income policy, etc.
- It is very useful to the planner for preparing economic plans for the country's development.
- It is helpful in international comparison. For example, microeconomic data like national income, consumption, saving-income ratio, etc. are required for a comparative study of different countries.
- It explains economic dynamism and intricate interrelationships among macroeconomic variables, such as price level, income, output and employment.
- Its study facilitates overall purposes of control and prediction.

LIMITATIONS OF MACROECONOMICS

Macroeconomics has certain limitations.

- It ignores, individual behaviour altogether.
- It has a tendency to excessive generalisation. Thus, analysing in aggregate terms, it pays least attention to the differences involved in the constituents.
- It is not easy to get correct and complete measures of economic aggregates. Thus, macroeconomic analysis lacks precision in actual practice.
- Macroeconomic predictions are not fully reliable when they are based on incomplete information or inaccurate measures. National income, price index number, etc. are only rough indicators.
- Often macro level policies may not produce the same results at micro levels.

DIFFERENCE BEI WEEN MICKO AND MACKO ECONOMICS :						
Basis	Micro economics	Macro economics				
Meaning	It is the study of the behaviour of	It is the study of aggregate or average				
	individual economic units.	covering the entire economy				
Central	It deals with the problems of price	It deals with the problem of determination				
problem	determination of individual's products	of income, employment and general price				
	and factors of production.	level of the economy.				
Basic	Price is the basic parameter of the	Income is the basic parameter of macro				
parameters	subject matter of micro economics.	economics. In macro economic				
	Economic unit like households and					
	producers take their economic decision					
	on the basis of prices in different					
	markets.					
Different	It is the bottom up view of the	It is the top down view of the economy.				
perspective	economy.					

DIFFERENCE BETWEEN MICRO AND MACRO ECONOMICS :



Subject- Economics-1

Methods of study	It uses the technique of partial equilibrium analysis. It means it makes it makes the theories with the	1 5
		interdependence of macroeconomic variables like aggregate demand and aggregate supply.
Maintools	Maintools are demand and supply.	Main tools are aggregate demand and supply
Other name	It is known as price theory.	It is known as income and employment theory.

ROLE OF BUSINESS ECONOMICS IN DECISION-MAKING

Today, the business and society are in the midst of a revolution comparable to industrial revolution. This revolution has four components:

- i. The globalization of markets.
- ii. The spread of information technology.
- iii. The dismantling of traditional business hierarchies; and.
- iv. The creation of a new information economy.

The primary role of Business economics is to evaluate the alternative courses of action and choose the best among them. The role of Business economics in decision making and its significance can be summarized as follows:

- 1. Provides understanding to solve business problems: Business economics provides many important concepts which are needed for the analysis of business problems. concept of elasticity of demand, fixed and variable cost, opportunity cost and net present value, all help in understanding and solving business problem.
- 2. Helps a manager to be more competent: Business economics helps a manager to be more competent. With the help of various models, the manager can understand their relationship which helps him to represent the real situation.
- 3. Decision making in complex environment: Business economics helps in making decisions relating to a variety of business complexities e.g.
 - i. What products and services should be produced?
 - ii. What production techniques should be applied?
 - iii. What may be the best size and location of a new plant?
 - iv. How the capital should be allocated?
- 4. Focus attention on social problems: Business economics interacts between firm and society and plays an important role in business. It focuses attention on theses social obligations about which business decisions are to be taken. For this it serves as an instrument in increasing economic welfare of the society.
- 5. Estimate relationships: Business economics helps in making estimates about relationship between various business parameters e.g. income, demand elasticity, price elasticity, cost-volume analysis etc. Theses estimates are also useful in forecasting and decision-making.
- 6. Effect of external forces can be estimated: Economic analysis also helps in understanding effect of external forces on business. There are various factors which affect the business environment such as trade cycles, economic policies, national income, licencing policy and price control policy of government. Decisions are to be taken keeping in view the above factors.

NATURE OF ECONOMICS

ECONOMICS AS A SCIENCE

The term science refers to a systematic body of knowledge that establishes the relationship between a cause and its effect. A body of knowledge becomes a science only when relevant facts are systematically collected, classified, analyzed and verified in order to find out the relationship between causes and effects. Based on such analysis, generalizations or laws are formulated which have universal validity.



Subject- Economics-1

Applying these principals to economics, we find that economics can be considered a science. Economics is a body of knowledge dealing with human behavior, where the various relevant facts have been systematically collected, classified, analyzed and verified base on which economic laws have been formulated like law of demand, law of diminishing marginal utility etc which have universal validity.

Economics deals with the human beings who do not always behave uniformly under all circumstances and at all places. The laws of economics are not as exact and certain as the law of pure sciences and also lack objectivity. So we can say that economics is a science not a pure science but a developing social science.

ECONOMICS AS AN ART

An art is a system of rules for the attainment of a given end.

An art is also a systematic body of knowledge but unlike science, it lays down certain precepts or specific solutions for specific problems. The objective of an art is the formulation of principles immediately applicable to policy. According to cossa, "A science teaches us to know, an art teaches us to do". An art means application of knowledge.

Applying these definitions of art, we find that economics is in many respect an art also. Economics down certain rules and guiding principles for the solution of several economic problems such as poverty, unemployment and inflation.

ECONOMICS AS POSITIVE AND NORMATIVE SCIENCE

A positive science is one which studies things as they are. It explains the causes and consequences of things but remains strictly neutral as regards ends. It refuses to pass moral judgments. It is merely descriptive, analytical and illuminating. A normative science on the other hand studies things as they are ought to be. It passes moral judgment on the rightness and wrongness of things and also prescribes the right solutions to problems.

Economics is both positive and normative science. As a positive science, economics studies the causes of poverty and inequality. As a normative science, economics not only explains the causes of poverty and inequality but also condemns such economic evils and advocates a fair distribution of national income, to reduce poverty and inequality. Economics tells us not only how things are, but also how things should be. It is both positive and normative science.

ECONOMICS A SOCIAL SCIENCE

Economics is a social science since it studies the human behavior as a relationship between ends and scarce means which have alternative uses. It examines how human beings behave with others in society when they are engaged in economic activities. Economics studies human beings not in their individual capacities but as members of an organized society exchanging their goods and influencing by their actions.



Subject- Economics-1

UNIT-II MEANING OF DEMAND

Demand for a commodity is the amount of it that a consumer will purchase will be ready to take off from the market at various given prices in a period of time such as a day, week, month or a year. It constitute three things as (i) desire for a commodity (ii) availability of resources (iii) willingness to spend the resources. "The demand for anything at a given price is the amount of it which will be bought per unit of time at that price." According to Hansen, "By demand, we mean the quantity of a commodity that will be purchased at a particular price and not merely the desire of a thing." Thus demand in economics implies both the desire to purchase and the ability to pay for a good.

The demand for a commodity and quantity demanded are two different concepts. whereas, demand refers to quantities of a commodity which consumers plan to buy at various prices of a good during a period of time and the quantity demanded is the amount of good or service which consumers plan to buy at a particular price.

TYPES OF DEMAND

The main classification types of demand are as under:

1. Price Demand: Price demand refers to the various quantities of commodity which the consumer will buy per unit of time at a certain prices (other things remaining the same). The quantity demanded changes with the change in price. The quantity demanded increases with a fall in price and the quantity demanded falls with an increase in price. In other words, we can say that quantity demanded and price have a negative relationship as

$$D_A = f(P_A)$$

Where D_A = Demand for commodity A f = Function

- P_A = Price of the commodity A.
- **2. Income Demand:** Being **ceterus-paribus**, the income demand indicates the relationship between income and demand of the consumer. The income demand shows how much quantity a consumer will buy at different levels of his income. Generally, there is positive relationship between income and demand of the consumer i.e.

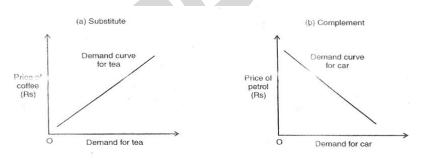
$$\mathbf{D}_{\mathrm{A}}=\mathbf{f}\left(\mathbf{Y}_{\mathrm{A}}\right)$$

Where D_A = Demand for commodity A

 Y_A = Income of the consumer A.

The above function shows as the income of the consumer increases demand also increases and when income falls demand also decreases.

3. Cross Demand: Cross demand refers to the relationship between quantity demanded of good 'A' and price to related good 'B' other things being equal. In simple words, from cross demand we mean the change in the quantity demanded of a commodity without any change in its price but due to the change in the price of related goods i.e. B commodity. The related goods can either be substitute goods or complementary goods. The demand curve in the case of substitute will be of upward sloping while the demand curve in complementary goods will be of downward slop.





Subject- Economics-1

DETERMINANTS OF DEMAND

- 1) Price of the commodity
- 2) Price of substitutes and complementary goods.
- 3) Consumers' income.
- 4) Consumer's taste and preference.
- 5) Consumers' expectations of future prices
- 6) Demonstration effect.
- 7) Consumer-credit facility
- 8) Population of the country Distribution of national income

DEMAND SCHEDULE

Demand schedule refers to the response of amount demanded to change in price of a commodity. It summarizes the information on prices and quantity demanded. It is of two types.

- 1. Individual Demand Schedule
- 2. Market Demand Schedule
- 1. Individual Demand Schedule: Considering other things being equal individual demand schedule refers to the quantities of the commodities demanded by the consumer at various prices. It can be with the help of table 1:

Individua	l Demand Schedule
Price per unit of the bale	Quantity Demanded
5	1
4	2
3	3
2	4
1	5

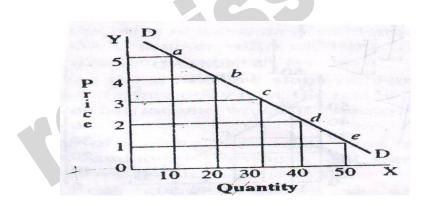
From the above table it is seen that as the price per unit say cotton goes on increasing, the quantity demanded goes on falling. AS is clear, when price of cotton is Rs. 5, quantity demanded is 1 units. Now, the price of cotton falls to Rs. 3, the quantity demanded increases to 3 units. Moreover, as the price falls to Rs. 1 quantity demanded shoots upto 5 units.

Individual Demand Curve

Individual demand curve refers to the quantity demanded by the consumer at different levels of prices. It can be shown with the help of figure

In the figure given below OX axis measures the different quantities of cotton demanded on OY-axis price per unit cotton. DD is demand curve. The points a, b, c, d, e on the demand curve shows the price quantity relationship. At price Rs. 5 the quantity demanded is 1 units. As the price falls to Rs. 1 per unit, the quantity demanded increases to 5 units. Moreover, the demand curve slopes downward from left to right which indicates that there is inverse relation between price and quantity demanded.

Diagram





Subject- Economics-1

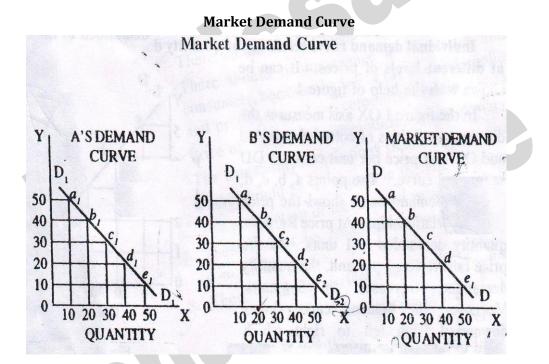
Market Demand Schedule

The market demand is the summation of collection demand of all persons of a homogeneous commodity. Basically, the market demand schedule-depicts the functional relationship between prices and quantity demanded. If we are interested to know the demand schedule for a year, we will add the demand for all the months of that particular year. In this way, we may conclude that market demand schedule is a lateral summation of the quantities purchased by all individuals at different prices in a particular period of time. Therefore, "Market demand schedule is defined as the quantities of a given commodity which all consumers will buy at all possible prices at a given moment of time." The market demand schedule is shown in table 2.

Price Per Unit	Quantity Demanded	Quantity Demanded	Total Market Demand
	by A	by B	(A + B)
5	10	15	25
4	15	20	35
3	20	25	45
2	25	30	55
1	30	35	65

Market Demand Schedule

In table 2, market schedule is obtained by adding the demand of A and B at different prices. For instance, at a price of Rs. 5 the market demand is 25 i.e. 10 of A consumer and 15 for B consumer. AS the price falls to Rs. 1 the market demand increases to 65 i.e. 30 and 35 for A and B consumers respectively. In other words, we can say that like individual demand, market demand also depicts the negative correlation between price and quantity demanded.



The market demand curve is the horizontal summation of all individuals demand for the commodity. The above figure and B shows the individual demand curves. $D_1 D_1$ and $D_2 D_2$ are the demand curves for consumers A and B and the market demand curve is DD. It is also assumed that there are two consumers in the market facing same price of the commodity but they purchase according to their individual requirements.



Subject- Economics-1

A + B = Market Demand

At price Rs. 5 the market demand is $a_1 + a_2 = a$ At price Rs. 4 the market demand is

 $b_1 + b_2 = b$

In the same fashion, at prices 3, 2, 1, the market demand is

 $\mathbf{c}_1 + \mathbf{c}_2 = \mathbf{c}$

 $d_1 + d_2 = d$

 $e_1 + e_2 = e$

Now, if we combine these points we will get the market demand curve as DD.

Law of Demand

The law of demand states that there is inverse relation between the price and demand for a commodity. According to law of demand, other things being equal, if price of a commodity falls, the quantity demanded of it will rise and if price of a commodity rises, the quantity demanded of it will fall. Although, this relationship is not proportionate yet is does not mean when price falls by one-half the demand for good will be doubled. It simply shows the direction of change in demand as a result of change in price. We can say that quantity demanded and price have a inverse relationship.

THE DEMAND CURVE

A demand curve is a graphical presentation of the demand schedule. A demand curve is obtained by plotting a demand schedule. For example, when the data given in the demand schedule (Table) is presented graphically as in Fig. the resulting curve DD' is the demand curve. The curve DD' in Fig. depicts the law of demand. It slopes downward to the right. It has a negative slope. The negative slope of the demand curve DD' shows the inverse relationship between the price of shirt and its quantity demanded. It shows that demand for shirts increases with the decreases in its price and decreases with rise in its price. As can be seen in Fig. below , downward movement on the demand curve DD' from point D towards D' shows fall in price and rise in demand. Similarly, an upward movement from point D' towards D reads rise in price and fall in demand.

Why Demand Curve Slopes Downward to the Right

The Diagram for Demand Curve shows that demand curve slopes downward to the right. Why does it happen? The reasons behind the law of demand are following:

(*i*) **Income effect.** When price a commodity falls, real income of its consumers increases in terms of this commodity. In other words, their purchasing power increases since they are required to play less for the same quantity. According to another economic law, increase in real income (or purchasing power) increases demand for goods and services in general and for the goods with reduced price in particular. The increase in demand on account of increase in real income is called income effect.

(ii) **Substitution effect.** When price of a commodity falls, it becomes cheaper compared to its substitutes, their prices remaining constant. In other words, when price of a commodity falls, price of its substitutes remaining the same, its substitute becomes relatively costlier. Consequently, rational consumers tend to substitute cheaper goods for costlier ones within the range of normal goods- goods whose demand increases with increase in consumer's income-other things remaining the same. Therefore, demand for the relatively cheaper commodity increases. The increase in demand on account of this factor is known as substitution effect.

(iii) **Diminishing marginal utility.** Marginal utility is the utility derived from the marginal unit a commodity when its price falls. When a person buys a commodity, he exchanges his money income with the commodity in order to maximize his satisfaction. He continues to buy goods and services so long as marginal utility of his money (Mu_ms) is less than the marginal utility of the commodity (Mu_c).commodity Mu_m with Mu_c, with a view to maximizing his satisfaction. Consequently, demand for a commodity increase when its price falls.



Subject- Economics-1

Assumptions in the law of demand

According to Stigler and Boulding, the law of demand is based on the following assumptions:

- 1. There should be no change in the income of the consumers.
- 2. There should be no change in the tastes and preferences of the consumers, because the law of the demand applies only when the tastes and preferences of the consumers remain constant.
- 3. Price of the related commodities should remain unchanged.
- 4. The commodity in questions should be a normal one.
- 5. There should be no change in the size of population.
- 6. There distribution of income and wealth should be equal.
- 7. There should be continuous demand except in case of indivisible commodities.
- 8. There should be perfect competition in the market.

Importance of the Law

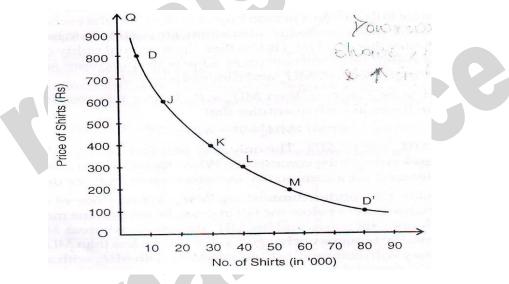
The law of demand has been of great theoretical and practical importance in economics as:

- 1. Price Determination.
- 2. Importance for the consumer
- 3. Importance to Finance Minister
- 4. Important for Planning.
- 5. Important for Producers
- 6. Importance for Farmers

EXCEPTIONS TO THE LAW OF DEMAND

The law of demand is one of the fundamental laws of economics. The law of demand, however, does not apply to the following cases:

- (i) Expectations regarding future prices.
- (ii) Prestigious goods.
- (iii) Giffen goods.



ELASTICITY OF DEMAND

Elasticity of demand is defined as the degree of responsiveness of the quantity demanded of a good to a change in its price, consumers income and prices of related goods. There are three concepts of demand elasticity – price elasticity, income elasticity and cross elasticity.



Subject- Economics-1

E = % change in Quantity demanded/% change in variable

Price elasticity of demand

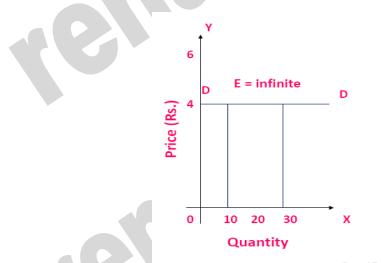
 $(PED \text{ or } E_d)$ is a measure used in economics to show the responsiveness, or elasticity, of the quantity demanded of a good or service to a change in its price. More precisely, it gives the percentage change in quantity demanded in response to a one percent change in price (holding constant all the other determinants of demand, such as income).

Price elasticity of Demand = Proportionate change in purchases of commodity X Proportionate change in price of commodity X



Types/Degrees of Price Elasticity of Demand

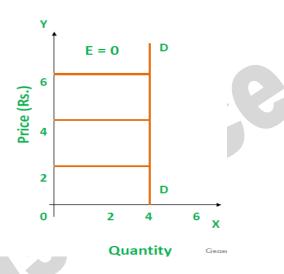
A) Perfectly Elastic Demand: A perfectly elastic demand refers to the situation when demand is infinite at the prevailing price. It is a situation where the slightest rise in price causes the quantity demand of the commodity falls to zero.



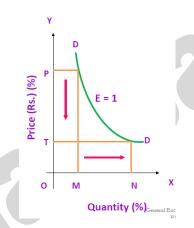
B) Perfectly Inelastic Demand: A perfectly inelastic demand refers to a situation when change in price causes no change in the quantity demanded. Even a substantial change in price does not impact quantity demanded.



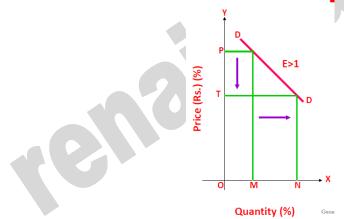
Subject- Economics-1



C) Unitary Elastic Demand: It is a situation when change in quantity demanded in response to change in own price of the commodity is such that total expenditure of the quantity remains constant. In short % change in quantity demanded is equal to % change in price. This type of demand curve is called Rectangular Hyperbola



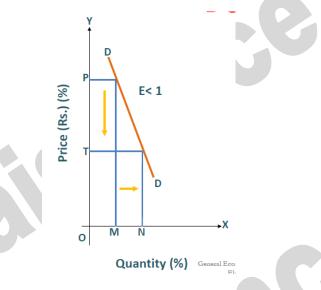
D) Greater than unitary Elastic Demand: Demand is greater than unitary elastic when change in quantity demanded in response to change in price of the commodity is such that total expenditure of the commodity increases when the price decreases, and total expenditure decreases when price increases. In short % change in quantity demanded is greater than % change in price.





Subject- Economics-1

E) Less than Unitary Elastic Demand: Demand is less than unitary elastic when change in quantity demanded in response to change in price of the commodity is such that total expenditure on the commodity decreases when price falls, and total expenditure increases when price rises. In short % change in quantity demanded is less than % change in price.



Methods to measure Price Elasticity of demand

- There are three methods of measuring price elasticity of demand:
- (1) Total Expenditure Method.
- (2) Geometrical Method or Point Elasticity Method.
- (3) Arc Method.

Total Expenditure (Outlay) Method:

This method is evolved by Dr. Alfred Marshall. According to this method, to measure the elasticity of demand it is essential to know how much & in what direction the total expenditure has changed as a result of change in the price of good.

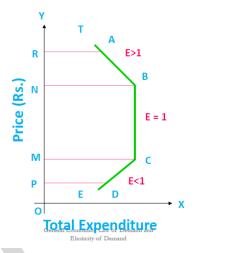
Total Expenditure (Outlay) Method

Elasticity of Demand	Price	Total Expenditure
Greater than Unity i.e. E _p > 1	↑ ↓	↓ ↑
Unity	Same	Unchanged
i.e. E _p = 1	Same	Unchanged
Less than Unity	1	1
i.e. E _p < 1	Ļ	Ļ



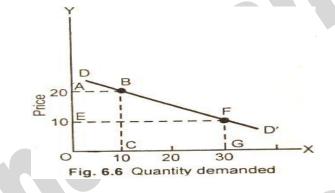
Subject- Economics-1

Total Expenditure (Outlay) Method



For Example:

Price Per Unit (\$)	Quantity Demanded	Total Expenditure (\$)
20	10 Pens	200.0
10	30 Pens	300.0



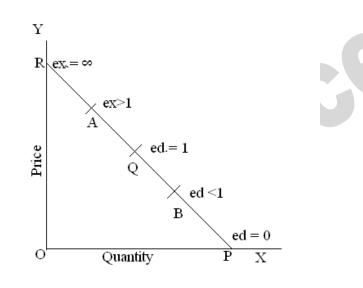
Point Method or Geometrical Method:

This method was also suggested by Alfred Marshall. It explains the elasticity of demand at a particular point of the demand curve if the demand function is linear one (or when demands curve is straight line sloping down from left to right). The point method is not applicable on curvilinear demand curves. This method is based on the proposition that each point of the straight line demand curve has different elasticity of demand. Different elasticity of demand. We have already shown (under the heading slope and elasticity) that every point on demand curve does not have the same elasticity. This has been explained by point method, also known as Geometrical Method. The basic formula for this method is:

Ep = Length of Lower segment Length of Upper segment



Subject- Economics-1



Now we can calculate elasticity of demand at different points R,A,Q, B and P, As per the ratio of the lower part to upper part.

 $e_{p} \text{ at } Q = \underline{QP} = 1$ $e_{p} \text{ at } A = \underline{AP} \qquad 1$ $e_{p} \text{ at } B = \underline{BP} > 1$ $e_{p} \text{ at } R = \underline{RP} = \infty$ $e_{p} \text{ at } P = \underline{O} = 0$ BP

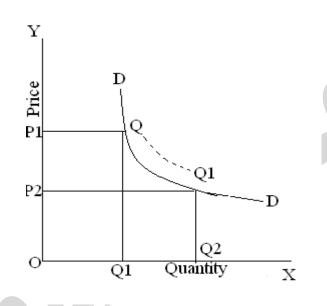
Therefore, we can say that at the mid-point on a straight line demand curve, elasticity will be unitary, at higher points (such as A and R) elasticity will be greater than one; at lower points (B and P) the elasticity will be less than one. At points R and P the elasticity's will be infinite and zero respectively. Point method is very useful in economics. It helps us measuring elasticity with very small changes in price and quantity demanded. It also tells us that slope and elasticity are two different things.

Arc Method:

As we have seen that point elasticity method can be used to determine the elasticity of demand at different points when infinitesimal changes in price are taking place. If the price change is somewhat large or we have to measure elasticity between two different points rather than at a specific point we use Arc Method. When we have to measure the price elasticity over an arc of the demand curve, such as between points Q and Q1 on the demand curve in figure the point elasticity method cannot yield true picture. In measuring arc elasticity we use the average of the two prices and average of two quantities at these prices in the following manner.



Subject- Economics-1



Income elasticity of demand

Income elasticity of demand measures the percentage change in demand caused by a percent change in income. A change in income causes the demand curve to shift reflecting the change in demand. IED is a measurement of how far the curve shifts horizontally along the X-axis. Income elasticity can be used to classify goods as normal or inferior. With a normal good demand varies in the same direction as income. With an inferior good demand and income move in opposite directions

Income Elasticity = Proportionate change in the quantity purchased /Proportionate change in Income

% Change in Quantity Demanded

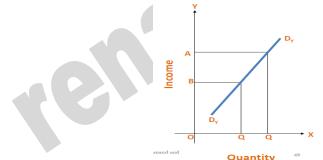
% Change in Income

Degree of Income Elasticity of Demand

- 1. Positive Income Elasticity of Demand
 - a. Unitary income elasticity of demand
 - b. Less than unitary income elasticity of demand
 - c. More than unitary income elasticity of demand
- 2. Negative income elasticity of demand
- 3. Zero income elasticity of demand

Positive income Elasticity of Demand

Income elasticity of demand for a good is positive, when with a increase in the income of a consumer his demand for the goods is increases and vice-versa.



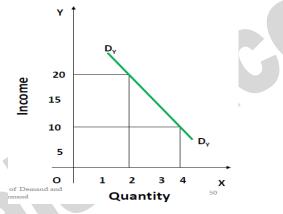


Subject- Economics-1

Negative Income Elasticity of Demand:

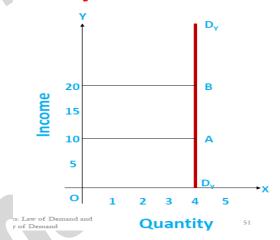
Income Elasticity of Demand is negative when increases in the income of the consumer is accomplished by fall in demand of good.

It is negative in case of inferior goods which are known as Giften goods.



Zero Income Elasticity of Demand:

Income Elasticity of demand is zero, when change in the income of consumer evokes no change in his demands. Demands for necessaries like oil, salt, etc., have zero income elasticity of demand



CROSS ELASTICITY OF DEMAND

Cross price elasticity of demand measures the percentage change in demand for a particular good caused by a percent change in the price of another good. Goods can be complements, substitutes or unrelated. A change in the price of a related good causes the demand curve to shift reflecting a change in demand for the original good. Cross price elasticity is a measurement of how far, and in which direction, the curve shifts horizontally along the x-axis. Positive cross-price elasticity means that the goods are substitute goods.

Cross elasticity of Demand for X and Y = Proportionate change in purchases of commodity X Proportionate change in price of commodity Y

The numerical value of cross elasticity depends on whether the two goods in question are substitutes, complements or unrelated.

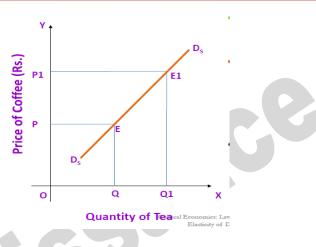
Degree of Cross Elasticity of Demand

Positive Cross Elasticity of Demand:

It is positive in case of substitute goods for example, Rise in the price of coffee will lead to increase in Demand for Tea. The curve slopes upward from left to right

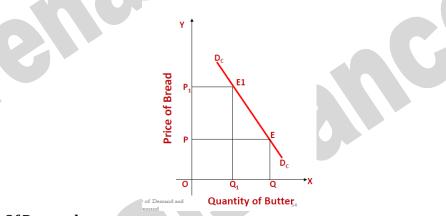


Subject- Economics-1



Negative Cross Elasticity of Demand:

It is negative in case of complementry goods. For example rise in price of bread will bring down the demand for butter.the curves slopes downward from left to right.



Zero Elasticity Of Demand:

Cross elasticity of demand is zero when two goods are not related to each other . for example, Rise in the price of wheat will have no effect on the demand for shoes.

Types of Cross Elasticity

(i) Substitute Goods. When two goods are substitute of each other, such as coke and Pepsi, an increase in the price of one good will lead to an increase in demand for the other good. The numerical value of goods is positive.

For example there are two goods. Coke and Pepsi which are close substitutes. If there is increase in the price of Pepsi called good y by 10% and it increases the demand for Coke called good X by 5%, the cross elasticity of demand would be:

$E_{xy} = \% \Delta q_x / \% \Delta p_y = 0.2$

Since E_{xy} is positive (E > 0), therefore, Coke and Pepsi are close substitutes.

(ii) **Complementary Goods.** However, in case of complementary goods such as car and petrol, cricket bat and ball, a rise in the price of one good say cricket bat by 7% will bring a fall in the demand for the balls (say by 6%). The cross elasticity of demand which are complementary to each other is, therefore, 6% / 7% = 0.85 (**negative**).

*(iv)***Unrelated Goods**. The two goods which are unrelated to each other, say apples and pens, if the price of apple rises in the market, it is unlikely to result in a change in quantity demanded of pens. The elasticity is zero of unrelated goods.



Subject- Economics-1

SUPPLY

Meaning of Supply

Supply means the quantities of goods which are offered for sale at particular prices during a given period of time. Thus, the supply of a commodity may be defined as the amount of that commodity which the sellers (or producers) are able and willing to offer for sale a particular price during a certain period of time.

The supply for a commodity and quantity supplied are two different concepts. Whereas, supply refers to quantities of a commodity which producers or seller offer for sell at all possible prices of a good during a period of time and the quantity supplied is the amount of good or service which producers or seller offer for sell at particular price of a good during a particular period of time.

Factors Affecting Supply

The determinants of supply are as follows:

- 1) Price.
- 2) Prices of related goods.
- 3) Objectives of producer
- 4) Number of producers
- 5) The cost of factors of production
- 6) The State of Technology
- 7) Factors Outside the Economic Sphere, Weather conditions, floods and droughts, epidemics etc.
- 8) Tax and Subsidy
- 9) Nature of commodity
- 10) Future expectation of price

Law of supply

Law of supply may be stated as "Other things remaining unchanged, the supply of a commodity expends (i.e., rise) with a rise in its price, and contracts (i.e. falls) with a fall in its price."The law, thus, suggests that the supply varies directly with the changes in price. So, a larger amount is supplied at a higher price than at a lower price in the market. We can say that quantity supplied and price have a positive relationship.

Explanation of the Law

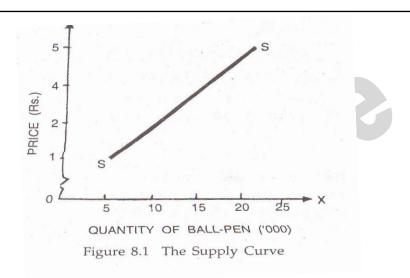
The law can be explained and illustrated with the help of a supply schedule as well as supply curve, based on imaginary data, a follows see table and figure given below. When the data of Table are plotted on a graph, a supply curve can be drawn as shown in Figure From the supply schedule it appears that the market supply tends to expand with a rise in price and vice versa. Similarly, the upward sloping curve also depicts a direct co-variation between price and supply.

TABLE : Market Supply Schedule					
	Price of a ball pen (Rs.)	Quantity Supplied (in 000 per			
week)	1 2 3 4 5	5 10 15 20 25			



B.B.A. 1st Sem.

Subject- Economics-1



Price Elasticity of Supply

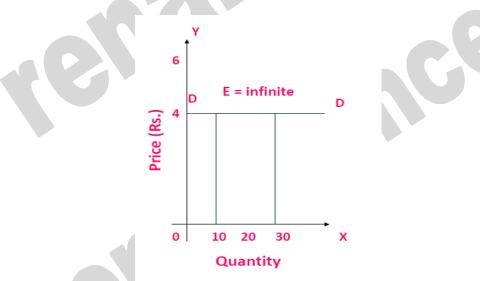
Price Elasticity of supply measures the degree of responsiveness of the quantity supplied of a commodity to a change in its price. It defined as the proportionate change in quantity supplied to the percentage or proportionate change in price. In symbolic terms;

Price elasticity of supply = Proportionate change in quantity supplied of commodity X Proportionate change in price of commodity X

There are various degrees of elasticity of supply. It may be perfectly elastic, perfectly inelastic, Unitary elastic, More than unit elastic and less than unit elastic.

Types/Degrees of Price Elasticity of Demand

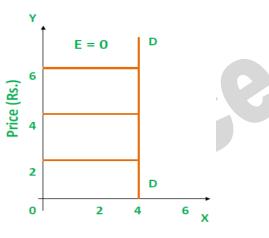
A) Perfectly Elastic supply: A perfectly elastic supply refers to the situation when supply is infinite at the prevailing price. It is a situation where the slightest rise in price causes the quantity supplied of the commodity rises to infinity. It is the extreme case of supply.



B) Perfectly inelastic supply: A perfectly inelastic supply refers to a situation when change in price causes no change in the quantity supplied. Even a substantial change in price does not impact quantity supplied.



Subject- Economics-1



- Quantity Gen
- C) Unitary Elastic supply: It is a situation when change in % change in quantity supplied is equal to % change in price. Elasticity of supply is equal to one.
- D) Greater than unitary Elastic supply: Supply is greater than unitary elastic when change in quantity supplied is more in response to change in price of the commodity. In short % change in quantity supplied is greater than % change in price.
- E) Less than Unitary Elastic supply: supply is less than unitary elastic when change in quantity demanded is less in response to change in price of the commodity. % change in quantity supplied is less than % change in price.



Subject- Economics-1

UNIT-III PRODUCTION

Creation of utility is called production. Land. Labour. Capital. Entrepreneur and organization are the factors of production.

PRODUCTION FUNCTION

The functional relationship between input & output is called production function. Production function tells the resultant output with combination of inputs. In mathematical formula production function is expressed as:

0 = F (a. b. c, d. e. etc)

O= Output, F= Functional Relationship

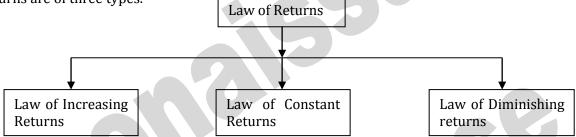
a, b, c, d, e = stands for various factors of production.

Assumptions of production function

- 1. It is related with given time period.
- 2. During short period production function is based on one fixed factor of production while other factors are variable.
- 3. During long run all the factors of production are variable even scale of production can be changed.
- 4. Different factors of production are divisible into small units.
- 5. Production function is based on assumption that slate of technology is given.
- 6. It is assumed that firm adopts best possible techniques of production.

SHORT RUN PRODUCTION FUNCTION

Under short Run one factor of production is kept fixed and other factors of production are kept variable to change the production pattern. Under short Run Production law of returns operate. These laws of returns are of three types.



Mordent economist considers that there is one law of production in place of three laws of production which is called law of variable proportions.

Law of Increasing Returns

According to this law the increase in the production will be more than in the proportion to the change in factors of production.

For Ex: 10% Increase in labour results in 1500 change in output

Law of Constant Returns

When output of the firm increases in same proportion to change in variable inputs of firm law of constant returns arc said to be operating.

For Ex: 10% increase in labour results in 10% increase in output.

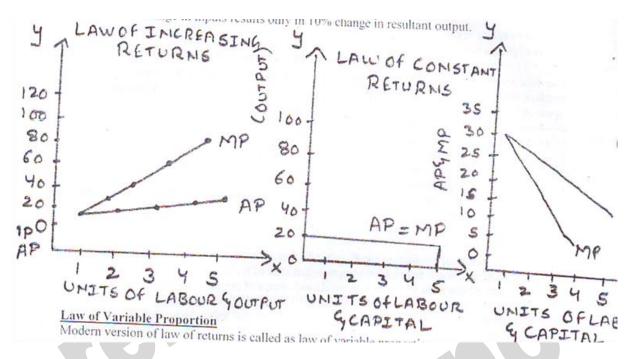
Law of Diminishing Returns

When output Of firm increase less than in proportion to the change in inputs the law is called the law of diminishing returns.

For Ex: 15% change in inputs results only in I 0% change in resultant output.



Subject- Economics-1



Law of Variable Proportion

Modern version of law or returns is called as law of variable proportion.

According to Samuelsson: "An increase in some inputs relative to other fixed inputs will in a given state of technology cause output to increase but after a point the extra output resulting from the same additions of extra inputs will become less and less.

ASSUMPTIONS

- 1. Law is based upon the possibility of varying proportions in which various factors can be combined to produce a product.
- 2. State of technology is assumed to be given & unchanged.
- 3. Some inputs are fixed and other inputs are variable.
- 4. Law is not applicable in long run.

CONCEPTS OF PRODUCTION

- 1. Total Product Total product refers to the loud number of units produced by the combination of fixed and variable factors of production.
- 2. Average Product: Average product refers to output produced by pr unit factors of production.

$$AP = \frac{TP}{Q}$$

3. Marginal Product - Marginal product is the additional unit produced by employing on additional unit of input.

$$MP = \frac{\Delta TP}{\Delta Q} \qquad \qquad \text{OR} \qquad \qquad MP = TP_n - TP_{n-3}$$

Explanation of Law Fixed Variable



Subject- Economics-1

Land (In Acres)	Units of Labour	Total Production	Average Production	Marginal Production
10	0	_	_	_
10	10	200	20	10
10	20	500	25	30 I
10	30	900	30	40 Stage
10	40	1200	30	30
10	50	1400	28	205 II
10	60	1560	26	16
10	70	1610	23	5 Stage
10	80	1610	20	
10	90	1530	17	-8 Stage

From the above table it is clear that there are three stages of the law of variable proportion. These stages are: -

- 1. Stage of Increasing Returns: In this stage output increases at the faster rate than the change in input. In this stage TP increases at increasing rate. AP & MP also increases but AP at less rate in comparison to MP. At the end of first stage AP will be at its maximum equal to MP i.e. AP=MP.
- 2. Stage of Diminishing Returns: At this stage TP will increase but at the slower rate. AP will fall and MP will also decline but faster than AP and reaches to 0 AP>MP. MP will be at its minimum when TI' will be at its maximum and will remain constant.
- 3. Stage of Negative Returns: At this stage MI will reach to negative. AP will also fall but AP>MP. AP never reaches to negative TP will also starts declining at this stage.

CAUSES OF LAW OF INCREASING RETURNS

- 1. Better economics of scale.
- 2. Full utilization of resources.
- 3. Advanced Technology
- 4. Maximum use of installed capacity.
- 5. Full utilization of fixed factor of production or indivisibility of output.
- 6. Division of labour of specialization.

CAUSES OF LAW OF DIMINISHING RETURNS

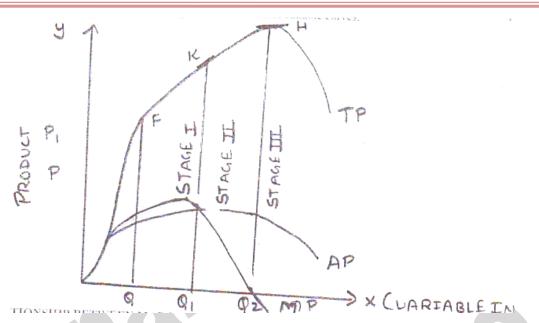
- 1. Imperfect substitutes
- 2. Disturbing optimum factor proportion.
- 3. Scarcity' of inputs

CAUSES OF LAW OF NEGATIVE RETURNS

- 1. Production beyond capacity.
- 2. Diseconomies of scale.
- 3. Inefficient management. Diagram below show the all three stages of production in form of suitable curves.



Subject- Economics-1



RELATIONSHIP BETWEEN MARGINAL PRODUCT (MP) ANDAVERAGE PRODUCTS (AP)

- 1. When MP > AP means AP is rising but less Man MP
- 2. When MP = AP mean, AP is constant and MP at maximum
- 3. When MP < AP means AP is falling but less then MP.

RELATIONSHIP BETWEEN MP CURVE AND AP CURVE

- 1. MP curve lies above AP curve. Al' curve positively slopes.
- 2. When MP curve intersects AP curve this is the maximum point on AP curve where AP is at maximum.
- 3. When MP curve lies below the AP curve, the AP curve shapes downward i.e. AP declines.

RELATIONSHIP BETWEEN TOTAL PRODUCT (TP) & MARGINAL PRODUCT (MP)

- 1. When TP increases at on increasing rate MP also increases.
- 2. While TP increases at diminishing rates MP declines.
- 3. When IP reaches its maximum MP becomes zero.
- 4. When TP declines Mp becomes negative.

LONG RUN PRODUCTION FUNCTION

Under long all the factors of production can be varied to increase production and even scale of production can be increased. When all the inputs are proportionately increased there are three possible ways in which total output may increase:

- 1. It may increase more proportionately.
- 2. It may increase proportionately.
- 3. It may increase less then proportionately.

This results in operation of law of returns to scale.

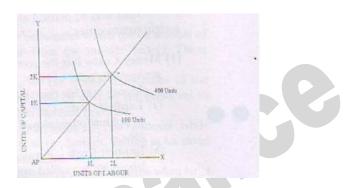
1. **LAW OF INCREASING RETURNS TO SCALE** – This stage implies that output increase more than proportionately to increase in input and rate of increase in output goes on increasing with each increase in input.

CAUSES

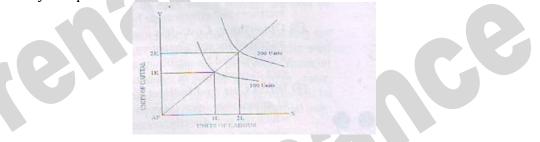
- a. Indivisibility of inputs.
- b. Technical and managerial indivisibility.
- c. Nigh degree of specialization.



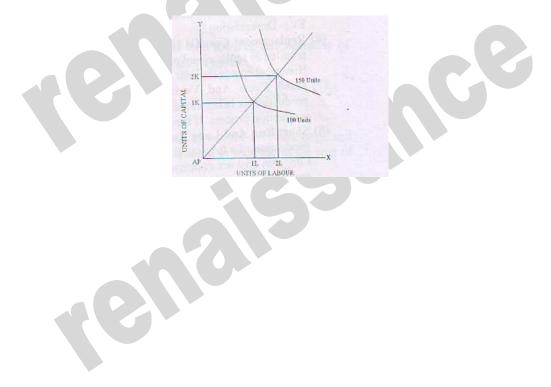
Subject- Economics-1



- LAW OF CONSTANT RETURNS TO SCALE When change in output is proportional to the change in inputs it shows constant returns to scale. CAUSES
 - a. Limits of economies of scale.
 - b. Divisibility of inputs.



- 3. LAW OF DIMINISHING RETURNS TO SCALE When increase in outputs less than proportional rise in output it is called law of diminishing returns to scale. CAUSES
 - a. In efficient management.
 - b. Diseconomies of scale.





Subject- Economics-1

Unit – 4

COST CONCEPTS

Cost may be defined as price paid for different factors of productions involved in producing certain commodities.

ELEMENTS OF COST

- 1. **Money Cost:** It is the cost which is expressed or calculated in monetary terms and is based on accountant's point of view. Money cost has three elements :
 - a. **Explicit Cost:** Cost consist of all the payments made on basis of contract to various factors of production employed by a firm namely prices paid for raw materials, rent, wages, salaries etc.
 - b. **Implicit Cost:** Payment made to owned factors of production like owned capital, owned labour etc are called implicit cost. These factors of production are personally owned by the producer/ firm used for the business purpose.
 - c. **Normal Cost:** It is the minimum profit a firm should get in order to remain in an industry, It is over explicit and implicit cost of a firm.

Money Cost = Explicit cost+ Implicit Cost + Normal Profit

- 2. Real Cost: This type of cost is calculated by a sociologist. He is concerned with pains, sacrifices and efforts made by the society in production of a commodity.
- 3. **Opportunity Cost:-** It is also called alternative cost or transfer cost. Opportunity cost is the cost sacrificed for one alternative for obtaining the next best possible alternative. For e.g. Commodity x is produced by sacrificing the production of y commodity so opportunity cost of X will he the cost of production of y commodity.
- 4. **Direct Cost and Indirect Cost:** Direct cost is the cost directly concerned with the production of commodity. ex:- Cost on raw material, wages, fuel etc. whereas indirect cost is the cost which is not directly concerned with the production of commodity, For ex: supervision, administration cost, rent, office overheads etc.
- 5. **Incremental Cost and Sunk Cost:** Cost incurred when a business firm changes its business activities or nature of business operation is called on incremental cost.

Incremental Cost = Changed total cost — initial total cost

Sunk costs are those cost which are not affected by the changes in the level of business activity or nature of business firm. These costs once incurred cannot be recovered easily. Ex.:- Depreciation

- 6. **Replacement Cost Of Historical Cost:** Cost incurred in replacing old assets from new assets is called as replacement cost or substitution cost. Historical cost is the cost based on purchase price i.e. initial value of the assets.
- 7. **Fixed Costs And Variable Costs:** Fixed cost are those costs which are fixed weather production is being carried or not. Variable costs are those costs which vary with the change in production process. If there will be no production these costs twill not incurred.
- 8. Short Run and Long Run Costs: Short run cost are those which are concerned with slum run production of a firm i.e. fixed cost aril variable costs. Long run cost is concerned with long run production of a firm where all factors of production are variable and all cost arc variable costs.

Economies of Scale

Economies of Scale are the results-of the operation of laws of returns to scale in long run. They are of two types:

- 1. Internal economies of scale.
- 2. External economies of scale
- 1. Internal Economies: Internal economies of scale are those economics which are on account of the size and operations of an individual firm itself and not from the outside factors. These economics may be of following categories: -



Subject- Economics-1

- a. Managerial economies means that with the expansion of the output on account of the change in scale of production the whole expanded scale is looked after by the personnel in the organizations and administrative cost decreases with the increase in output.
- b. Marketing economies are concerned with the bulk purchases of raw material while producing on the large scale leads to decrease in the cost of production. Selling in lot saves time, money and energy. Transportation cost will also be reduced.
- c. Specialization economies are on account of division of labour and specialization when large scale production is carried on. The cost of production reduces due to specialization when large scale production is carried on. The cost of production reduces due to specialization and division of labour in a business firm.
- d. Technical economies arise on account of large scale production in the use of plant, machinery and work processes. Advanced technology is used which reduces the cost of production when the production is carried on large scale.
- d. **External Economics:** External economies arise on account of the external factors and they are enjoyed by all the firms in the area or industry as a whole. When an area is industrially well developed then there will be development of labour market, banking, insurance, financial institutions, means of communication and transportation, social overhead and cheap water, electricity and ancillaries. When a new firm or industrial unit is set up all these benefits will be available in that men All these facilities will reduce the cost of production o fall the industrial units in the area.

As a result of all the internal and external economies the unit cost of production falls and the LAC and LMC will also fall.

Diseconomies of Scale

Diseconomies mean the losses incurred by the firms or industrial units in an area. These diseconomies are of two types:

- 1. Internal diseconomies of scale.
- 2. External diseconomies of scale
- 1. **Internal Diseconomies:** These diseconomies are concerned with the size and operation of individual firm or industry. These diseconomies are of the following categories:
 - a. Managerial diseconomies.
 - b. Technical diseconomies.
 - c. Marketing diseconomies.
 - d. Specialization diseconomies.

When the size of operation of a firm increases, the span of control becomes large and thereby the employer-employee relations are adversely affected leading to increase in the cost of production. It is resulted into managerial diseconomies.

Under technical diseconomies when the output is taken on large scale after a given point the break down rate may increase the cost of production.

Marketing diseconomies arise On account of the adverse effect on the control and coordination over marketing activities because of the large scale production and it increases the cost of production.

Specialization diseconomies are concerned with the division of labour and specialization introduced by a firm with the by a firm with the operation of the large scale production. But after a point due to monotony, fatigue and lack of coordination between different layers of personnel administration the cost of production increases that given birth to these diseconomies.

2. **External Diseconomies:** - Such loss or external diseconomies are incurred by-business firms or industrial units in an area. Concentration and localization of industries adversely affect the industrial peace in that area and strikes, lockouts, go slow tactics, gheraos, industrial accidents, emergence of dirty colonies. Water pollution air pollution, etc/ increase the cost of production of all firms and industrial units. Means of communication and transportation are overburdened.



Subject- Economics-1

Hence, the internal and external diseconomies will increase the LAC curve and LMC curve upward and the cost will increase.

COST — OUTPUT RELATION DURING SHORT RUN

During short run time period two types of factors of production are employed under which one is fixed factor an others are variable factors of production. Raw material, semi finished material, unskilled labour, energy etc are variable inputs which can be changed during short run, Machines. Capital, Infrastructure, Salaries of managers etc are fixed inputs.

SHORT RUN COST

- 1. **Total Fixed Cost (TFC):-** Those cost which remain constant when the output is zero as well as it does not increases with increase in production are called total fixed cost (TFC). For Ex: Plant, Land, Building, Machinery, Tools, Equipments, Insurance, Salaries of manager etc.
- 2. **Total Variable Cost (TVC):-** Those costs vary with the production of a commodity during short period and have direct relation with the change in production called total variable costs (TVC). These costs are also called prime cost are direct costs. It increases with increase in production of output.
- 3. Total Cost:- Aggregate of total fixed cost and total variable cost increased by a firm in the production of any commodity is called total cost. Total cost (IC') Total Fixed cost Total Variable Cost (TVC)

Total cost increases with change in output.

AVERAGE OR PER UNIT COST

- 1. **Average Fixed Cost:** Average fixed cost is total fixed cost divided by the volume of output. AFC has inverse relation with output and it decreases with increase and increases with decrease in output. AFC curve in rectangular hyperbola in shape. AFC = TFC / Output Total Fixed Cost i.e. Output (in Units)
- 2. Average Variable Cost (AVC):- Average variable cost is total variable cost divided by the volume of output. AVC falls with increase in output reaches its minimum and then starts rising. It is due to operation of law of returns. Shape of AVC curve is U shaped because of operation of law of returns where at Ist stage i.e. during law of increasing returns production rises and cost decreases then at 2nd stage i.e. laws of constant & diminishing returns cost reaches at minimum and remains constant and at 3rd stage i.e. law of negative returns cost starts increasing.

AVC = TVC / Output

ie Total Variable Cost

3. Average Costs (AC):- Average cost or average total cost (ATC) is the aggregate of AFC & AVC. AC = TC / Output

i.e. = Total cost / Output or AC = AFC + AVC

AC curve decreases with increase in output remains constant up to a point and then increases with increase in output.

4. Martinal Cost (MC):- Marginal cost is additional cost incurred in producing an additional unit of output.

 $MC = \triangle TC / A Output$

Marginal cost changes with the change in AVC and is independent of fixed cost. MC falls in beginning, reaches at its minimum and there after rises. MC is also a U shaped curve.



Subject- Economics-1

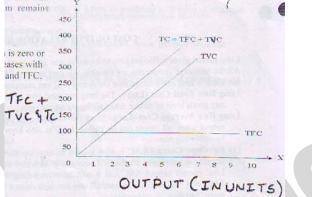
0		Total Cost		Avera			
Output	TFC	TVC	ТС	AVC	AFC	AC	MC
0	100	0	100	0	0	0	_
1	100	30	130	100	30	130	30
2	100	60	160	50	30	80	30
3	100	80	180	33.3	26.7	60	20
4	100	90	190	25	22.5	47.5	10
5	100	100	200	20	20.0	40.0	10
6	100	120	220	16.66	20.0	36.6	20
7	100	150	250	14.3	21.4	35.7	30
8	100	190	290	12.5	23.7	36.2	40
9	100	240	340	11.1	26.6	37.7	50
10	100	320	420	10	32.0	42.0	80

In above table- TFC remains constant and TVC goes on increasing and TC is also increasing, with increase in output. AFC is decreasing with increase in output. AVC decreases reaches to minimum and then increasing. AC decreases reach to minimum and then increase. MC decreases reach to minimum remains constant and then increases.

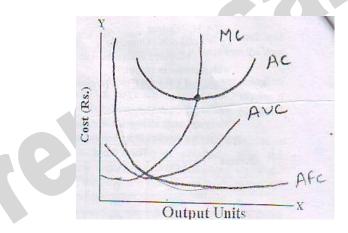
DIAGRAM 1st

Output (in Units)

TFC remains constant weathers production is Zero or 10 units. TVC starts from 0 units and increases with increase in output. TC is the total of TVC and TFC.



AC. MC and A' it are U shaped curses because of the operations of law of returns. AFC curve shows a decreasing trend. MC curve passes through minimum point, point of AC and AVC.

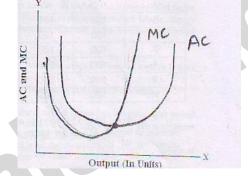




Subject- Economics-1

RELATIONSHIP BETWEEN AC AND MC

- 1. AC and MC fall in beginning but MC falls more rapidly than AC and MC is below AC or vice versa (AC > MC).
- When AC rises MC also rises but rises rapidly than AC and MC is more than AC or vice versa.(MC > AC)
- 3. When AC is minimum it is equal to MC curve cuts AC carve at its minimum point.(MC=AC)



COST OUTPUT RELATION DURING LONG RUN

Long period gives sufficient time to business managers to change even the scale of production. All the factors of production are variable. All cost are variable and there is no fixed cost. In long run there is long run average cost curve and long run marginal cost curve.

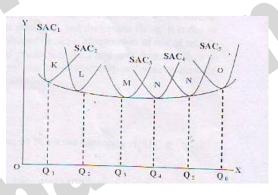
Long Run Total Cost (Ltc) :- The long run total cost of production is the least possible cost of producing any given level of output when all inputs are variable.

Long Run Average Cost (Lac):- Long run average cost curve shows the lowest average cost of producing output when all inputs can be varied. LAC is also known by following names:-

- 1. Envelope Curve:- LAC is also known as envelop curve because it envelopes all the SAC curves. It indicates that LAC cannot exceed SAC and it will be surrounding the SAC, and does not rise upwards. Long run cost cannot be more than short run cost.
- 2. Planning Curve:- Lac is also known as planning curve as firm or a producer Cali decide that which plant size should be used to produce different quantities of output so that production is done at minimum cost .Usually rational produce selects plant size where LAC is at its minimum for the output production.

In the fig. LAC is shown which is tangent to all SAC curves.

In order to produce QQ3 level of output corresponding point an LAC is K which is tangent to SAC, and therefore.



LONG RUN MARGINAL COST (LAC)

Long — run marginal cost curve is that which shows the extra cost incurred in producing one more unit of output when all inputs can be changed.

$$LMC = \frac{\triangle LTC}{\triangle Q}$$

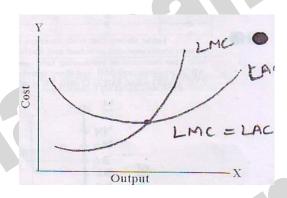


Subject- Economics-1

RELATION BETWEEN LMC and LAC

Relation between long-run marginal cost and long-run average cost is similar to that of what it is in short run AC and MC. The only difference in long run AC and MC is that long run MC and AC Curve are more flat to than that of SAC and SMC, it is so because in long run all factors of production are variable and firm selects appropriate scale of production at minimum cost so cost increase in long run is gradual in comparison to short run curves. LAC is also a expanded U Shaped curve because of operation of laws of returns to scale.

As firm expend their output scale of operation also increased by firm so they will enjoy economies of scale but if these firm produce beyond their installed capacity of scale that results in increase in cost gradually.



CONCEPTS OF REVILNUE

In economics revenue is studied in terms of total revenue (TR). Average revenue (AR) and marginal revenue (MR)

Total Revenue:- Total revenue is the total money receipts of a firm or producer with sales of its output. TR = Q x P

i.e. quantity of goods sold x price per unit.

Average Revenue:- It is average per unit of sale of output. It is also called. Price per unit of output. AR = TR / O

i.e. total revenue / No. of output sold.

Marginal Revenue:- It is an addition to the total revenue when an additions unit of output is sold by a firm

ts.

or

	MR	=	$\Delta TR / \Delta R$
	$\triangle TR$	=	Change in Total Revenue
~	$\triangle 0$	=	Change in Output
	MR	=	$TR_n - TR_{n-1}$
	TR	=	Total Revenue
	TR _n	=	Total Revenue of products
	TR _{n-1}	=	Total Revenue of n- I produc

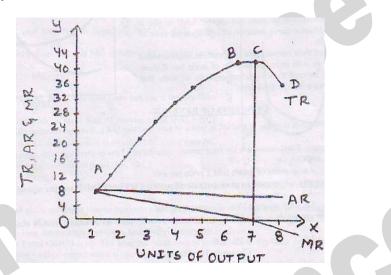
INTER RELATIONSHIP AMONG OF REVENUE

units of output	price per unit	TR	AR	MR
sale	(Rs.)			
1	12	12	12	12
2	11	22	11	11
3	10	30	10	10
4	9	36	9	9
5	8	40	8	8
6	7	42	7	7
7	6	42	6	6
8	5	40	5	5



Subject- Economics-1

Table shows that with increase in output unit sale price per unit decreases and TR increases reaches to maximum remains constant and declines. AR falls with every unit of output sold and is equal to price. MR will also decrease at increasing rate reaches too and then becomes negative. AR and MR are decreasing, but AR is positive and MR has three trends decreases, becomes zero and negative. Fall in AR is less than MR (AR > MR) when MR is 0 then TR will be at its maximum.



TR, AR and MR are revenue curves show n on OY axis output is shown on ()X axis. A to B is increasing stage of TR. B to C is constant and C to D is decreasing stage of TR. AR and MR are falling but AR is above the MR (AR > MR). MR will he negative when TR falls.

Relation between Alt and MR

Under different market conditions the relation between AR and MR can be as given below:

AR and MR under perfect Competition

Under perfect competition price remains constant. Price, AR and MR will be the same and the demand curve will be horizontal to OX-axis because there is a large number of buyers and sellers, homogeneous product and price h determined by the total demand and supply, firm is a price taker. Hence, there is one price prevailing in the market. It can be seen from the following table:-

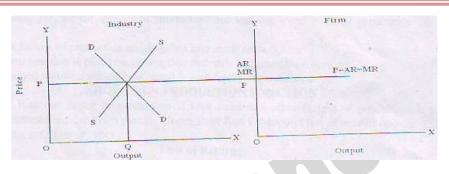
units of output	price per unit (Rs.)	TR	AR	MR
1	5	12	12	12
2	5	22	11	11
3	5	30	10	10
4	5	36	9	9
5	5	40	8	8
6	5	42	7	7

AR and MR under Perfect competition

The table reveals that the price per unit is the same and TR is increasing but AR and MR remain constant. Price is equal to AR and MR (P=AR=MR) under perfect competition. The table can be shown on a diagram as given below:



Subject- Economics-1



(Diagram: AR and MR under Perfect Competition) The diagram shows that price is determined by the intersection of demand and supply by the industry and the same is accepted by individual firm Price. MR and AR are shown by the horizontal line parallel to OX axis.

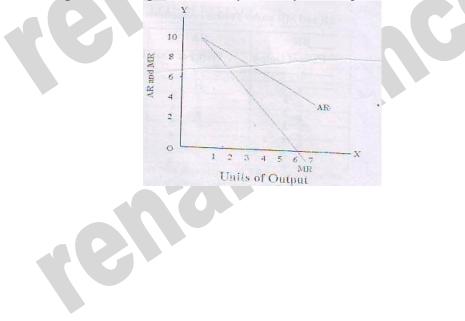
AR and MR under imperfect Competition

As we have seen that perfect competition is an imaginary and unrealistic situation. It is called a myth. Under imperfect competition the firm can increase its sales by reducing the price of its product. Hence, AR and MR will be different under this market structure. It can be seen from the following table:-**Table 3**

units of output	price per unit (Rs.)	TR	AR	MR
1	10	10	10	10
2	9	18	9	8
3	8	24	8	6
4	7	28	7	4
5	6	30	6	2
6	5	30	5	0
7	4	28	4	-2

AR and MR under-Imperfect Competition

The table shows that AR is decreasing but it is positive. MR is decreasing, becomes zero and thereafter it becomes negative. AR and price are equal (P = AR) but AR and MR are different. AR is decreasing and MR is also decreasing but AR is higher then MR (AR > MR). The slope of AR and MR will be declining:





Subject- Economics-1

UNIT 5 MARKET STRUCTURE

Meaning of Market

- Market refers to the whole region where buyers and sellers of a commodity are in contact with each other to effect purchase and sale of commodity.
- In the words of Cournot ,a French economist, "Economists understand by the tern market not any particular market place in which things are bought and sold but the whole of the region in which buyers and sellers are in such free intercourse with one another that the price of the same good tends to equality easily and quickly."

CHARACTERISTICS

- 1. Commodity which is bought and sold.
- 2. The existence of buyers and sellers.
- 3. A place, be it a certain region, a country or the entire world.
- 4. Communication between buyers and sellers that only one price should prevail for the same commodity at the same time.

Classification of market structure

Market structure refers to number and types of firms operating in the industry. Factors determining market structure:

- 1. Number of Buyers and Sellers : Number of buyers and sellers of a commodity in the market indicates the influence exercised by them on the price of the commodity. In case of large number of buyers and sellers, an individual buyer or seller is not in a position to influence the price of commodity.
- 2. Nature of Commodity : If the commodity is of homogenous nature i.e identical in all respects, then it is sold at a uniform price .However if the commodity is of differentiated nature(like different brands of toothpaste) then it may be sold at different prices.
- 3. Freedom of Movement of Firms : If there is a freedom of entry and exit of firms, then price will be stable in the market. However, if there are restrictions on entry of new firms and exit of old firms, a firm can influence the price as it has no fear of competition from other or neW firms.
- 4. Knowledge of Market Conditions : If buyers and sellers have perfect knowledge about the market conditions, then a uniform price prevails in the market. However, in case of imperfect knowledge, sellers are in a position to charge different prices.
- 5. Mobility of Goods and Factors of Production : When the factors of production can move freely from one place to another, then a uniform price prevails in the market. However, in case of immobility of goods and factors, different prices may prevail in the market.

FORMS OF MARKET STRUCTURE

- 1. Perfect Competition
- 2. Imperfect Competition
- Monopoly
- Monopolistic Competition
- > Oligopoly

1. PERFECT COMPETITION

Perfect Competition refers to a market situation where there are very large number of buyers and sellers dealing in a homogenous product at a price fixed by the market. Features of perfect competition:



Subject- Economics-1

- ✓ Large no. of buyers and sellers- The no. of sellers is so large that the share of each seller is insignificant in the total supply. Hence an individual seller cannot influence the market price. Similarly a single buyer's share in total purchase is so insignificant because of their large no. that an individual buyer cannot influence the market price.
- ✓ Homogenous product-The products offered for sale in the market are homogenous i.e. the product sold is identical in all respects like size, shape, quality, colour etc. The buyers are willing to pay only the same price for the products of all the firms in the industry. No individual firm is in a position to charge a higher price for its products. This ensures uniform price in the market.
- ✓ Freedom of entry and exit-Every seller has the freedom to enter or exit the industry. There are no artificial and natural barriers for entry of new firms and exit of existing firms. It ensures absence of abnormal profits and abnormal losses in the long run.
- ✓ Perfect mobility of resources-The factors of production (land, labour, capital and entrepreneurship) are perfectly mobile. There is no geographical or occupational restriction on their movement. The factors are free to move to the industry in which they get the best price.
- ✓ Perfect knowledge-It means that buyers and sellers are fully informed about the market price. No firm is in a position to charge a different price and no buyer will pay a higher price. As a result a uniform price prevails in the market.
- ✓ Absence of transport cost-It is assumed that transportation costs are zero, in order to ensure uniform price in the market.

2. IMPERFECT COMPETITION

It is an important market category wherein individual firms exercise control over the price to a smaller or larger degree depending upon the degree of imperfection present in a case.

a) MONOPOLY : Monopoly refers to a market situation where there is a single seller selling a product which has no close substitutes.

FEATURES OF MONOPOLY

- Single seller-Under monopoly, there is a single seller selling the product. As a result, the monopoly firm and industry are one and the same thing and monopolist has full control over the supply and price of the product.
- No close substitutes-The product produced by a monopolist has no close substitutes. So , the monopoly firm has no fear of competition from new or existing products. For example, there is no close substitute of electricity services provided by NDPL.
- Restrictions on entry and exit-There exist strong barriers to entry of new firms and exit of existing firms. As a result, a monopoly firm can earn abnormal profits and losses in the long run. These barriers may be due to legal restrictions like licensing or patent rights or due to restrictions created by firms in the form of cartel.
- Price discrimination-A monopolist may charge different prices for his product from different sets of consumers at the same time. It is known as 'Price Discrimination'.
- Price Maker-In case of monopoly, firm and industry are one and the same thing. So, firm has complete control over the industry output. As a result, monopolist is a price-maker and fixes its own price. It can influence the market price by changing the supply of the product.

b) MONOPOLISTIC COMPETITION :

A market in which there are large no of sellers of a particular product, but each seller sells somewhat differentiated but close product.

FEATURES OF MONOPOLISTIC COMPETITION

- Large no. of sellers-There are large number of firms selling closely related, but not homogenous products. Each firm acts independently and has a limited share of the market. So, an individual firm has limited control over the market price. Large number of firms leads to competition in the market.
- Differentiated products-Each firm is in a position to exercise some degree of monopoly through product differentiation. Product differentiation refers to differentiating the products on the basis of brand, size, colour, shape etc. The product of a firm is close, but not perfect substitute of other firm.
- > Free entry and free exit-Firms are free to enter into or exit from the industry at any time they wish. It ensures that there are neither abnormal profits nor any abnormal losses to a firm in the long run.
- Selling cost-Products are differentiated and these differences are made known to the buyers through selling costs. Selling costs refer to the expenses incurred on marketing, sales promotion and advertisement of the product.



renaissanc**e**

college of commerce & management

Subject- Economics-1

Such costs are incurred to persuade buyers to buy a particular brand of the product in preference to competitor's brand. Due to this reason, selling costs constitute a substantial part of the total cost under monopolistic competition.

- Non-price competition-In addition to price competition, on-price competition also exists under monopolistic competition. on-price competition refers to competing with other firms by offering free gifts, making favourable credit terms etc without changing prices of their own products.
- Pricing Decision-A firm under monopolistic competition is neither a price taker nor price maker. However, by producing a unique product or establishing a particular reputation, each firm has partial control over the price. The extent of power to control price depends upon how strongly the buyers are attached to his brand.
- c)OLIGOPOLY : It is that form of market structure in which there are few firms selling a product so that there is intense competition among them.
 - 2 types of oligopoly:
- 1. PURE OLIGOPOLY- Oligopoly without product differentiation is also known as pure oligopoly. There is a competition among the few firms producing identical or homogenous product. The fewness of the firms ensures that each of them will have some control over the price of the product and the demand curve facing each firm will be downward sloping which indicates that the price elasticity of demand for each firm will not be finite.

2. DIFFERENTIATED OLIGOPOLY-

Oligopoly with product differentiation is also called differentiated oligopoly. It is characterized by competition among the few firms producing differentiated products which are close substitutes of each other. The demand curve facing individual firms under oligopoly with product differentiation is downward sloping and the firms would have fairly large control over the price of their individual products.

FEATURES OF OLIGOPOLY

- ✓ Non-price competition-Under oligopoly, firms are in a position to influence the prices. However, they try to avoid price competition for the fear of price war. They follow the policy of price rigidity. Price rigidity refers to a situation in which price tends to stay fixed irrespective of changes in demand and supply conditions.
- ✓ Interdependence-Interdependence means that actions of one firm affect the actions of other firms. A firm considers the action and reaction of the rival firms while determining its price and output levels. A change in output or price by one firm evokes reaction from other firms operating in the market.
- Nature of the product-The firms under oligopoly may produce homogenous or differentiated product.
 - If the firms produce a homogenous product, like cement or steel, the industry is called a pure or perfect oligopoly.
 - If the firms produce a differentiated product like automobiles, the industry is called differentiated or imperfect oligopoly.
- ✓ Importance of selling cost-Due to severe competition and inter-dependence of the firms, various sales promotion techniques are used to promote sales of the product. Advertisement is in full swing under oligopoly and many a times advertisement can become a matter of life and death.
- ✓ Barriers to entry- The main reason for few firms under oligopoly is the barriers, which prevent entry of new firms into the industry. Patents, requirement of large capital, control over crucial raw materials etc are some of the reasons which prevent new firms from entering into industry. Only those firms enter into the industry which are able to cross these barriers. As a result, firms can earn abnormal profits in the long run.
- ✓ Indeterminate demand curve-Under oligopoly, the exact behaviour pattern of a producer cannot be determined with certainty. So, the demand curve faced by an oligopolist is indeterminate. As firms are inter-dependent, a firm cannot ignore the reaction of the rival firms. Any change in price by one firm may lead to change in prices by the competing firms. So, demand curve keeps on shifting and it is not definite, rather it is indeterminate.

DUOPOLY MARKET : It is form of market structure in which there are only two sellers of a commodity.



Subject- Economics-1

UNIT 6 INTERNATIONAL TRADE

International trade may be defined as the exchange of goods and services among the citizens of different countries. For example, when India exports garments to U.S.A. and imports capital goods like machinery from it, there is international trade between them.

MERITS OF INTERNATIONAL TRADE:

- 1. Variety of goods- International trade enables a country to consume a large variety of commodities than would be available otherwise to it. A country gets an opportunity to consume a large variety of goods produced by different countries.
- 2. Availability of raw material and specialized goods- A country is able to acquire those commodities through international trade which they cannot produce at home with any amount of effort. For examples, raw material and mineral resources are not available in all countries. Raw materials which are not available within a country can be imported through international trade.
- 3. Specialization and division of labour- International trade enables different countries of the world to exploit the advantages of division of labour and specialization. Foreign trade enables each country to specialize in the production and export of those goods which it is best suited to produce in terms of availability of various resources and import those goods which it can obtain cheaper from abroad.
- 4. Increase in efficiency through widening of market-International trade is a means by which efficiency in the economy increases. International trade widens the extent of the market. Consequently, every country attempts to produce goods in large quantities.
- 5. Competition- International trade ensures free competition. It encourages countries to compete with each other. Competitiveness stimulates productivity, reduces monopolistic exploitation of consumers.
- 6. Optimum allocation of resources- International trade leads to optimum allocation of resources. Under a system of free trade, a country can sell its products in those markets where it can get the best price for its products and buys its requirements from the cheapest source of supply.
- 7. International cooperation- Besides the important economic reasons, there are cultural and humanistic reasons for international trade. International trade promotes mutual cooperation among different countries.

DEMERITS OF INTERNATIONAL TRADE:

- 1. Vulnerable position during wars- International specialization results in dependence on other countries. A country which depends on imports of essential commodities like food and raw material is in a vulnerable position during a war.
- 2. Economic instability- Another disadvantage is that it is the source of economic instability. There is always the possibility of booms and depressions present in one country being transmitted to other countries of the world through international trade.
- 3. Exploitation- There is always the possibility of advanced nations exploiting the underdeveloped countries as they are able to reap bulk of gains from international trade.
- 4. Dislodging of domestic industries- Cheaper goods imported from other countries may inflict injuries on domestic industries producing similar goods.
- 5. Exhaustion of natural resources- Foreign trade may lead to exhaustion of natural resources in case of primary producing countries.
- 6. Political conflicts- Commercial rivalries resulting from international trade often gives rise to political conflicts among various countries. Many a times this may lead to war or war-like situations.



Subject- Economics-1

BALANCE OF PAYMENTS

Balance of Payment is an accounting statement that provides a systematic record of all the economic transactions, between Residents of a country and the rest of the world ,in a given period of time.

Components of balance of payments

All transaction in balance of payments can be grouped under two broad categories:

- a) Current Account
- b) Capital Account

Current Account: Current accounts refer to an account which records all the transactions relating to export and import of goods and services and unilateral transfers during a given period of time. Components of Current Account

- a) Exports and Imports of Goods
- b) Exports and import of Services
- c) Unilateral or Unrequited Transfers to and from Abroad
- d) Income Receipts and Payments to and from Abroad

Capital Account: Capital account of BOP records all those transactions, between the residents of a country and the rest of the world, which cause a change in the assets of the liabilities of the residents of the country or its government.

Components of Capital Accounts:

- a) Borrowings and lendings to and from abroad
- b) Investment to and abroad
- c) Change in foreign Exchange Reserve

Disequilibrium in BOP:

Deficit in balance of payments account arises when total inflows on account of autonomous transactions are less than total outflows on account of such transactions.

CAUSES OF DEFICIT IN BOP

Deficit in BOP may be caused due to number of factors. These factors can be divided into three groups:

- ECONOMIC FACTORS
 - i. Developmental activities: Developing countries depend on developed nations for supply of machines, technology and other equipment. This leads to increases levels of imports, thereby, resulting in a deficit in the BOP account.
 - ii. High rate of inflation: When there is inflation in the domestic economy, foreign goods become relatively cheaper as compared to domestic goods. It increases imports which causes a deficit in the BOP.
 - iii. Cyclical fluctuations: When the domestic economy is going through a phase of boom, then domestic production may be unable to satisfy the domestic demand. It leads to a deficit in BOP, due to increase in imports.
 - iv. Change in demand: Fall in demand for country's goods in the foreign markets leads to fall in exports and it adversely affects the balance of payments.

Political Factors

Political Instability: Political instability may lead to large capital outflows and reduces the inflow of foreign funds, thus, creating disequilibrium in the BOP.

Political Disturbances: Frequent changes in the government, inadequate support to the government in parliament also discourage inflows of capital. This leads to deficits due to higher outflows than inflows.

Social Factors

Demonstration Effects: when the people of underdeveloped countries come in contact with those of advanced countries, they start adopting the foreign pattern of consumption.

Change in tastes, preferences, fashion and trends: An unfavourable change for the domestic goods lead to a deficit in the balance of payments.

Remedies to correct disequilibrium in the Balance of Payments



Subject- Economics-1

Depreciation: Under the flexible exchange rate system, changes in the rate of exchange will automatically adjust the balance of payments. Depreciation of the country's currency will itself wipe out deficits in the balance of payment. Depreciation of currency means rise in the price of foreign currency or, which is the same thing, fall in the price of domestic currency.

Devaluation: Devaluation means increase in the price of foreign currencies or fall in the value of domestic currency. It means that foreigners pay less for the devalued currency or that residents of devalued currency pay more for foreign currencies. Therefore devaluation and depreciation imply the same thing. But there is an important difference between the two that is devaluation (and similarly revaluation) is used under fixed rate system. Devaluation takes place when the price of foreign currencies under policy.

While explaining depreciation and devaluation we have stated that an increase in the rate of exchange (or which is the same thing as fall in the value of domestic currency) increase the domestic prices of the imported goods. Let us explain this by taking an example. Suppose the price of a pair of American jeans is 10 dollars. When the exchange rate is Rs. 50 for 1 \$, the price of jeans in India in terms of India Currency is Rs. 500 (10*50 = 500). Now, if Indian rupee depreciates (or is devalued) so that the rate of exchange increases to Rs. 60 for 1\$, the rupee price of jeans will be Rs. 600 (10*60 = 600). Thus depreciation or devaluation of domestic currency (Indian Rupee in our example) increases the domestic prices of imported goods. At the export level, Indian exporter receives Rs. 10 more in home currency (Rs. 60 instead of Rs. 50) for every dollar they earn.

Import Control – Imports may be kept in check through the adoption of a wide variety of measures such as quotas and tariffs. Quotas limit the volume of imports by applying quantitative restrictions. The government may, for example, decide that only 90 percent of last year's volume of import may be imported this year. The government may increase the import duties or tariffs.

Export Promotion – The government may pursue various export promotion measures to stimulate exports. First it may reduce export duties so as to encourage exports. Second, cash assistance and subsidies can be given to exporters to stimulate exports. Thirdly, various facilities like quality control, provision of market information and arranging exhibitions of exportable goods in foreign countries can be provided to promote exports. Fourth, goods meant for export can be exempted from various taxes as an incentive to the exporters.

Exchange Control: Another important method of correcting disequilibrium in the balance of Payments is exchange controls or exchange restrictions. The government may try to hold complete control over all dealings in foreign exchange by directing all the exporters to sell their foreign exchange earnings to the central bank and all importers to buy foreign exchange from the central bank.

Production of Imports-Substitutes – Step may be taken to encourage the production of importsubstitutes. This will save foreign exchange in the short run by replacing the use of imports by this import substitutes. If the industries producing import substitute develop ultimately because of various incentives provide to these industries, they may turn out to be export-earners as well.

Monetary Policy – A tight monetary policy can be used effectively to reduce expenditure and there by correct deficits in the balance of payments. The central bank can reduce the volume of credit by raising the bank rate, by selling the approved securities in the open market and by raising cash reserve ratio. An increase in interest rates and decrease in the availability of credit will lead to fall in investment expenditure.

Fiscal Policy – A restrictive fiscal policy can also be successfully to wipe out balance of payments deficits by reducing the total expenditure in the economy. The restrictive fiscal policy is characterized by increase in taxes and decrease in government expenditure. An increase in direct taxes will reduce household incomes. This will lead to a reduction of consumption and a decrease in imports.

Capital Import – Deficit in the trade balance can be corrected in the short run by borrowing capital from the individuals and governments of other countries as well as by borrowing from international financial institutions like World Bank, IMF etc. A country can also attract short run private capital from abroad by raising the domestic rate of interest and offering certain tax concessions to foreign investors. However, this is only a temporary device for reducing deficits in the Balance of O Payments.



Subject- Economics-1

Trade Barriers:

- 1. TARIFFS: Tariffs are excise duties imposed on imported goods. The objective of imposing tariffs may be either raising revenue for the government or providing protection to the domestic industries. Therefore two types of tariffs are distinguished :
 - Revenue tariffs are usually imposed on the imports of those products which are not produced domestically. Rates of revenue tariffs are generally small but yield good revenue for the government. For example, in USA, tariffs are imposed on tin, coffee and bananas which are not produced in that country.
 - Protective tariffs are imposed to provide protection to the domestic producers from foreign competition. The rates of these tariffs are not so high as to completely prohibit their imports into a country. Rise in prices of their products as a result of imposition of tariffs, foreign producers lose their superior competitive power.
- 2. IMPORT QUOTAS: Import quotas refer to the maximum quantities of goods which may be permitted to be imported during any period of time. They are also referred to as quantitative restrictions on imports.
- 3. SUBSIDIES: Subsidies given by government to domestic firms to provide them incentives to export their goods which also act as a barrier to trade. Subsidies on exports help to keep domestic prices of these exported goods higher, while they act to lower world prices.