## Revenue Function

- 1) Definition and formula's for TR, AR & MR
- (i) Total Revenue (TR): It refers to total sicceipts from the sale of a given quantity of a commodity.

  It is the total income of a firm.

TR = Quantity X Price.

(ii) Average Revenue (AR): It nefers to revenue per unit of output sold. It is obtained by dividing the total nevenue (TR) by the no. of units sold.

AR = TR Quantity

(iii) Marginal Revenue (MR): It is the additional revenue generated from the sale of an additional unit of output. It is the change in TR from sale of one more unit of a commodity.

MRn = TRn-TRn-1

## Competition

) characteristics of markets

i) Area: Morket is not related to any particular place.
It spreads over an area. The area becomes
the point of contact between buyers and
sellers.

(ii) Buyers and sellers: They should be in contact with each other. Not necessarily

Physical presence.

(iii) commodity: For the existance of market, there must be a commodity which will be sold and purchased among buyers and

(iv) Competition: The existence of competition among buyers & sellers is also an essential condition for the existence of a month otherwise different poices may be changed for the source commodity.

2) Types of competition

a) Charactertic features

(i) Perfect Competition:

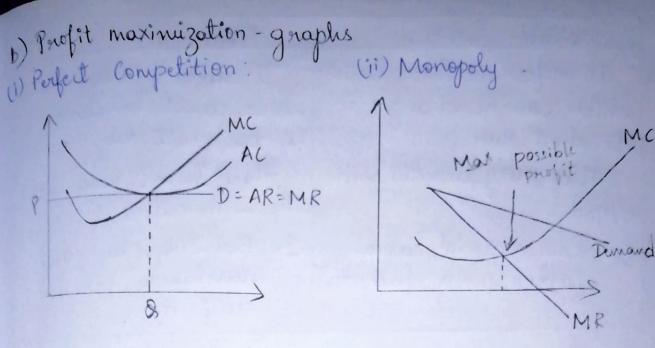
-> Very large number of Buyers and Sellers

> Homogenous Product

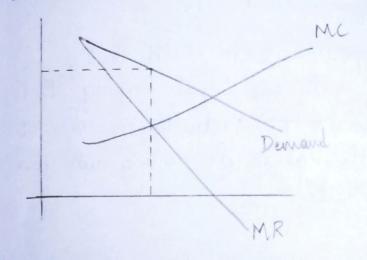
-> Freedom of entry and exit

- -> Perfect knowledge among buyers and sellers
- -> Perfect Mobility of factors of production
- Absence of transportation costs
- -> Absence of selling costs

(ii) Monopoly:
-> Single reller
-> No close substitutes
-> Restrictions on entray & exit
-> Price Discrimination.
-> Price Maken.
(iii) Monopolistic Competition:
-> Large number of sellers
-> Product Differentiation
-> Selling costs
-> Freedom of entoy and exit
-> Lack of Perfect Knowledge
-> Pouce Decision
-> Mon-price Competition.
(iv) Oligopoly:
-> Few firms
-> Independence
-> Mon-pauce competition.
-> Bassieur to Entry of Firms.
-> Role of Selling Costs.
-> Group Behaviour.
-> Nature of the product.
-> Interminate Indetermine Demand Curve



(ii) Monopolistic Competition



Theory of Production.

Define Paduction Function (cobb-Douglas Pacoduction

Production Function is an expression of the technological relationship between physical inputs and outpoont of a good.

2) Explain the difference between fixed factors and variable fixed factors

Fixed factors Variable factors It refers to those factors which can be changed in the short run. They vory directly with output. Ex: Raw material, casual labour, power, fuel, etc. machinery, permanent staff, etc,.

It refers to those factors which cannot be changed in the short run. they do not vary direct - ly with output. Ex: Building, Plant and

3) Explain the law of variable peroportions, state the assumptions of the law.

Law of Variable Proportions (LVP) states that as we increase quantity of only one input keeping other inputs fixed, total product (TP) initially increases at an increasing rate, then at a decreasing rate and finally at a negative nate.

Assumptions:

-> The law applies to all fixed factors including land.

-> The law applies to the law field of production only.

-> It is assumed that all variable factors are equally efficient.

efficient.

-> The state of technology is assumed to be constant

during the operation of this law.

> It operatoes in short sums, as factors are classified

as variable and fixed factor

> Under this law, different writs of variable factor can be combined with fixed factor.

1) Distinguish between short-run & long-run production function.

7	
Short-run	Long-sun
It refers to a period in	It geters to a period
which of output can be	in which output can be
changed by changing	changed by changing an
only variable factors.	factors of production.
Factors are classified as	All factors are variable
variable and fixed factor	
in the short own.	
Demand is more active	Both demand and sup-
in poice determination as	-pply play equal note in
supply cannot be increased	price determination as
immediately with increase	both can be increased.
in demand.	

5) Explain the law of diminishing returns and the assumptions.

when more and more units of a variable factor are employed with the fixed factor, then manginal product of the variable factor must fall.

## Assumptions:

- -> No change in Technology
- -> Short Poriod
- -> Homogeneous Units
- -> Measurement of Product.