#### **REVENUE**

# TOTAL REVENUE, AVERAGE REVENUE, MARGINAL REVENUE AND ELASTICITY

## Total Revenue, Average Revenue Marginal Revenue

Total Revenue-Total revenue is the amount received by the seller from the sale of the quantity of the good sold in the market. TR = P X Q

Average Revenue- Average revenue is the revenue generated per unit of output sold. AR= TR/Q

Marginal Revenue- Addition to Total Revenue by selling one more unit of the product.

$$MR_n = TR_n - TR_{n-1}$$

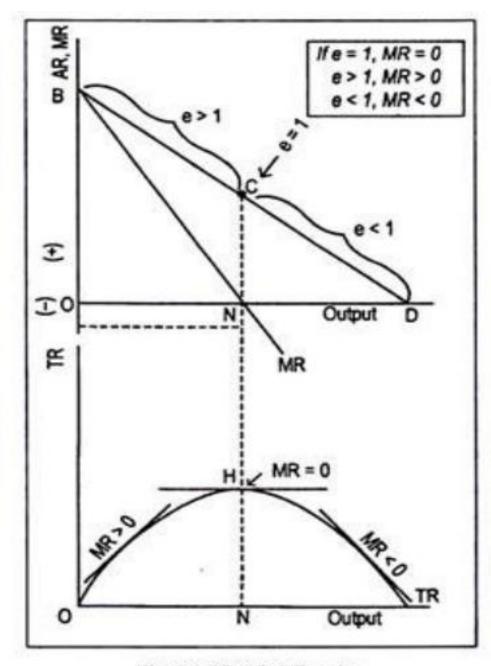
Where

 $TR_n$  – the total revenue when the sales are at the rate of 'n' units per period.

 $TR_{n-1}$  – the total revenue when the sales are at the rate of (n-1) units per period.

### Total Revenue, Average Revenue Marginal Revenue & Price Elasticity

Quentity	TR = AR X Q TR = P X Q	AR or Price= TR/Q	MR= TRn -TRn-1	Elasticity= AR/ (AR-MR)
1	10	10	10	
2	18	9	8	9
3	24	8	6	4
4	28	7	4	7/3
5	30	6	2	6/4
6	30	5	0	5/5
7	28	4	-2	4/6
8	24	3	-4	3/7



- When TR is increasing MR is diminishing & price elasticity of demand(e>1)
- When TR is mximum MR is zero & price elasticity of deman(e=1)
- When TR is diminishing MR id deminishing and
- negative & price elasticity of demand(e<1)</li>

Fig. 5.1: TR, AR, MR and e

### Marginal Revenue, Average Revenue, Total Revenue and the Elasticity of Demand

$$Epd = AR/(AR-MR)$$

marginal revenue, average revenue and price elasticity of demand are related to one another through the following formula:

$$MR=AR\times(e-1)/e$$

where 'e' is the price elasticity of demand.

- If e = 1, thenMR=AR×1-1/1=0
- If e > 1, then MR is positive.
- If e < 1, then MR is negative.