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### Monopoly

#### Main Features of Monopoly

1. There is only one seller of a particular good or service.

2. Rivalry from the producers of substitutes is so remote as to be *unsignificant*. This implies that the cross-elasticity of demand between the monopolist's product and

3. As a result, the monopolist is in a position to set the price himself. In fact, monopoly implies market power.

The strength of a monopolist lies in his power to raise his prices without frightening away all his customers. How much he can raise them depends on the elasticity of demand for his particular product. This, in turn, depends on the extent to which substitutes for his products are available. And in most cases, there is rather an infinite cases of closely competing substitutes. Even exclusive managing like railways or series of closely competing substitutes. Even exclusive monopolies like railways or telephones must take account of potential competition by alternative services. An telephones must take account of potential competition by alternative services. An undue increase in rates may lead to substitution of railways by motor transport and of telephone calls by telegrams. The closer the substitute and the greater the elasticity, therefore, of the demand for a given manufacturer's product, the tess he can raise his price without frightening away his customers. In fact, two conditions are necessary to make a monopolist strong: (i) A gap in the chain of substitutes, and (ii) possibility of securing control over all the close substitutes. In fact, it is very difficult to draw a line between what is and what is not a monopoly. The truth is that there is a continuous gradation between competition and monopoly, just as there is between light and gradation between competition and monopoly, just as there is between light and darkness, or between health and sickness.

# Market Structure Characteristics of Monopoly

Number and size distribution of sellers Number and size distribution of buyers Product differentiation

Conditions of entry and exit

Single seller Unspecified No close substitutes Entry prohibited or difficult

#### Causes of Monopoly

Monopoly may arise due to the following causes:

- 1. The Government may grant a licence to any particular person or persons for operating public utilities like a gas company, an electricity undertaking or a tram company. In public utility services, economies of scale are so striking that it seems almost inconceivable to have several firms performing the same service. Again, the Government may reserve the right of foreign trade in any commodity for itself, or may give this right to any other person. In all these cases, the statutory grant of special privileges by the State creates monopoly condition.
- 2. A producer may possess certain scarce raw materials, patent rights, secret methods of production, or specialised skill which might give him monopoly power. For example, Hoechst held a monopoly for some time in oral medicines for diabetes because they were the first to find out the methods of reducing blood sugar by an oral dose
- 3. The necessity of having large resources, as is the case where the minimum efficient scale of operations is very large, may often create monopoly. For example, it is so for making some chemicals. In fact, monopoly tends to arise in industries characterised by decreasing long-run costs.
- 4. Ignorance, laziness and prejudice of the buyers may create monopoly in favour of a particular producer

# Revenue and Costs of Monopolists

Average Revenue. If a monopolist raises his price slightly, he will sell less, but there will still be some buyers of his product. He can increase his sales only by reducing his price. His average revenue (demand) curve will slope downwards to the right. It shows that larger quantities can be sold at lower prices, whereas smaller quantities can be sold at higher prices

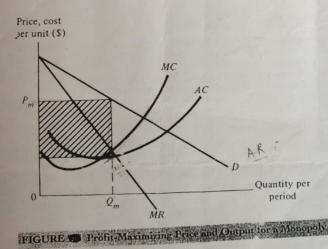
Marginal Revenue and the Sale Value of the Incremental Output. Under pure competition, both marginal revenue and the sale value of the incremental output are identical. But this is not so in the case of monopoly. To sell additional units, a monopolist will have to reduce him. monopolist will have to reduce his price. This reduction in price will apply both to old and new customers. Let us assume that a shirt manufacturer retails his shirts at Rs. 40 per unit. Total sales are 1,000 shirts. To sell 1,100 shirts, he reduces his price to Rs. 38. The sale value of the incremental output will be Rs. 3,800, the marginal revenue will be Rs. 1,800 only. Thus under monopoly conditions marginal revenue will always be less than the sale value of the incremental output. After a certain stage, the marginal revenue may even be negative.

#### **Profit-Maximizing Price** and Output in the Short Run

Demand and cost curves for a monopolist are shown in Figure . As with the perfectly competitive firm, the cost curves depict first decreasing and then increasing average costs.

Because they face a horizontal demand curve, managers of firms in a perfectly competitive world have no control over price. They simply choose the profit-maximizing output. However, because the monopolist has a downward-sloping demand curve, as shown in Figure , managers must recognize that their output decisions can influence price and vice versa. Because price must decrease in order to increase sales, an increase in output will require that the firm sell at a lower price. The effect of output changes on total revenues depends on the marginal revenue curve shown in Figure . If marginal revenue is negative, total revenue is reduced by the increased output.

The criterion for maximizing profits is the same for the monopolist as for firms in perfect competition—output should be increased until the additional revenue equais the marginal cost. For the competitive firm, the price is unaffected by output, so the decision criterion is to produce until price equals marginal cost. For the monopolist, the



equivalent criterion is to produce at  $Q_m$  in Figure (m, m), where marginal revenue equals the marginal cost. At this output, the monopolist charges what the market will allow, indicated by the demand curve. In Figure (38), this price is  $P_m$ 

