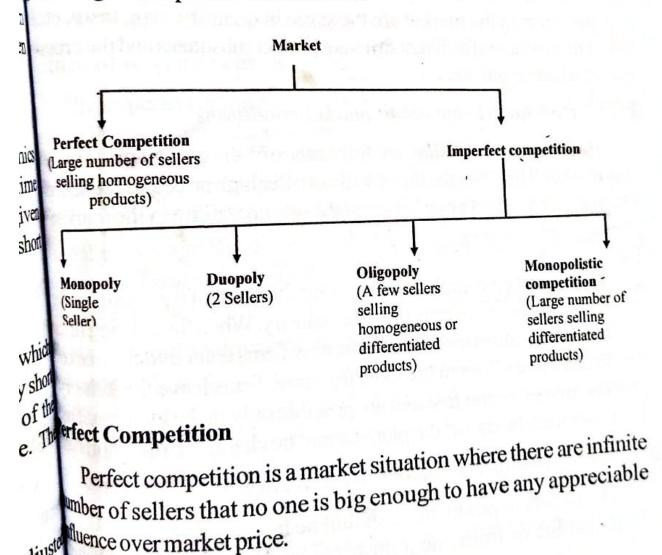
## () Market according to competition

rt pen

These markets are classified according to the number of sellers in the market and the nature of the commodity. The classification of market according to competition is as follows.



Soldor Con Features and Conditions of perfect competition 1. Large number of buyers and sellers There are a large number of buyers and sellers in a perfet competitive market that neither a single buyer nor a single sell 6 can influence the price. The price is determined by market force Absence of a namely the demand for and the supply of the product. There In a perfectly e be uniform price in the market. Sellers accept this price and adjust transport costs the quantity produced to maximise their profit. Thus the  $seller_{N_k}$ at uniform pric the perfect competitive market are price-takers and quantil the firms near firms far away adjusters. Absence of G Homogeneous Product The products produced by all the firms in the perfectly competitive There are no g market must be homogeneous and identical in all respects i.e.th etc. There is a products in the market are the same in quantity, size, taste, etc in the perfectly changes in der The products of different firms are perfect substitutes and the cross elasticity is infinite. ature of Reven Perfect knowledge about market conditions Under perfect narket forces nam Both buyers and sellers are fully aware of the current price in the sence there is unife market. Therefore the buyer will not offer high price and the sella resold at the same will not accept a price less than the one prevailing in the marked dastic. The average Free entry and Free exit ince the Average onstant and coinc There must be complete freedom for the entry of new firms or the presents the dem exit of the existing firms from the industry. When the existing firm bort run equilibi are earning super-normal profits, new firms enter into the market When there is loss in the industry, some firms leave the industry competition The free entry and free exit are possible only in the long run. 19 Since a firm ir is because the size of the plant cannot be changed in the short no has to adjust it any producer i Perfect mobility of factors of production The short run i The factors of productions should be free to move from one to firms are fixed to another or from one industry to another easily to get beth increasing the

164

remuneration. The assumption of perfect mobility of factors is essential to fulfil the first condition namely large number of producers in the market. n a perfect ingle seller Absence of transport cost irket forces In a perfectly competitive market, it is assumed that there are no There will transport costs. Under perfect competition, a commodity is sold and adjust at uniform price throughout the market. If transport cost is incurred, e sellers in the firms nearer to the market will charge a low price than the d quantity firms far away. Hence it is assumed that there is no transport cost. Marke Absence of Government or artificial restrictions or collusions There are no government controls or restrictions on supply, pricing mpetitive etc. There is also no collusion among buyers or sellers. The price cts i.e. the in the perfectly competitive market is free to change in response to aste, etc. changes in demand and supply conditions. he crossture of Revenue curves Under perfect competition, the market price is determined by the tket forces namely the demand for and the supply of the products. ace there is uniform price in the market and all the units of the output e sellers sold at the same price. As a result the average revenue is perfectly narket tic. The average revenue curve is horizontally parallel to X-axis. ice the Average Revenue is constant, Marginal Revenue is also astant and coincides with Average Revenue. AR curve of a firm resents the demand curve for the product produced by that firm. ort run equilibrium price and output determination under percompetition That Since a firm in the perfectly competitive market is a price-taker, it ort run has to adjust its level of output to maximise its profit. The aim of any producer is to maximise his profit. ne use The short run is a period in which the number and plant size of the better firms are fixed. In this period, the firm can produce more only by increasing the variable inputs. 165

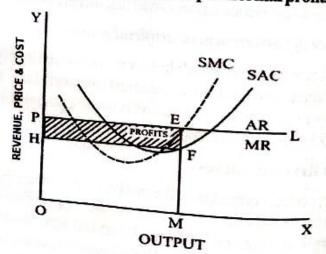


3. As the entry of new firms or exit of the existing firms are not possible in the short-run, the firm in the perfectly competitive marketon either earn super-normal profit or normal profit or incur loss into short period.

#### Super-normal Profit

When the average revenue of the firm is greater than its average cost, the firm is earning super-normal profit.

## Short-run equilibrium with super-normal profits



## FIGURE 8.1

In figure 8.1, output is measured along the x-axis and price, revenues along the x-axis along and cost along the y-axis. OP is the prevailing price in the market. Plate demand curve or axis. the demand curve or average and the marginal revenue curve. SAL and SMC are the short and SMC are the short run average and marginal revenue curves. The finis in equilibrium at point (E), and are marginal cost curves. is in equilibrium at point 'E' where MR = MC and MC curve cuts MR = MC and MC MC and MC and MC and MC and MC cuts MR = MC and curve from below at the point of equilibrium. Therefore the firm will producing OM level of output producing OM level of output. At the OM level of output ME is the All and MF is the average cost The and MF is the average cost. The profit per unit of output is EF (the cost) and ME and ME. difference between ME and MF). The total profits earned by the first will be equal to EF (profit per unit of output is but the first per u will be equal to EF (profit per unit) multiplied by OM or HF (10) output). Thus the total profits will be unit output). output). Thus the total profits will be equal to the area HFEP. HFEP of optimum size i.e. pro

#### Long run equil

In the long r output by increas new firms can en industry. As a resu the long run.

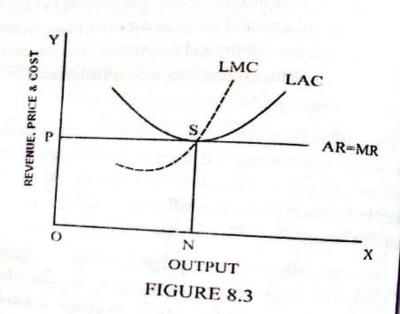
If the existing enter the industry t output produced w demand for factors prices of the factors

On the other si of the product incre supply of the produc Hence the average re and the rise in averag AC). Thus, all the per the long run.

Figure 8.2 repres competition. The firm AR = LAC. The long n just the normal profit. above OP, the firm wil firms into the industry. the tendency will be to the price and marginal revenue. Thus the firm Competitive firms are in

t possible run equilibrium, price and output determination arket can In the long run, all factors are variable. The firms can increase their oss in the adput by increasing the number and plant size of the firms. Moreover, ew firms can enter the industry and the existing firms can leave the mustry. As a result, all the existing firms will earn only normal profit in belong run. s average If the existing firms earn supernormal profit, the new firms will ater the industry to compete with the existing firms. As a result, the utput produced will increase. When the total output increases, the emand for factors of production will increase leading to increase in ices of the factors. This will result in increase in average cost. On the other side, when the output produced increases, the supply the product increases. The demand remaining the same, when the upply of the product increases, the price of the product comes down. lence the average revenue will come down. A fall in average revenue d the rise in average cost will continue till both become equal. (AR = C). Thus, all the perfectly competitive firms will earn normal profit in clong run. Figure 8.2 represents long run equilibrium of firm under perfect Impetition. The firm is in equilibrium at point S where LMC = MR = e, revenue R=LAC. The long run equilibrium output is ON. The firm is earning ket. PLis the normal profit. The equilibrium price is OP. If the price rises rve. SAC ove OP, the firm will earn abnormal profit, which will attract new The firm ms into the industry. If the price is less than OP, there will be loss and cuts MR tendency will be to exit. So in the long run equilibrium, OP will be m will be Price and marginal cost will be equal to average cost and average is the AR venue. Thus the firm in the long run will earn only normal profit. s EF (the opetitive firms are in equilibrium at the minimum point of LAC curve. y the firm Perating at the minimum point of LAC curve signifies that the firm is HF (total optimum size i.e. producing output at the lowest possible average HFEPIS 167

## Long run equilibrium of the firm



## Advantages of perfect competition

- There is consumer sovereignty in a perfect competitive many market conditions. Therefore, he will not purchase the product a higher price.

  2. In the
- 2. In the perfectly competitive market, the price is equal to minimum average cost. It is beneficial to the consumer.
- 3. The perfectly competitive firms are price-takers and the product of incur expenditure on advertisement to promote sales.
- 4. In the long run, the perfectly competitive firm is functioning optimum level. This means that maximum economic efficient is equal to the optimum output, there is no idle or unused or entering the second control of the control of

#### Monopoly

Mono there are no are barriers

#### Characteri

- 1. Single or supp. product,
- 2. No close product.' have to be
- the price: The the price: fix differe can either both, at the
- 4. No Entry: market as t are strong technologic the entry of
- 5. Firm and I between a f single firm c

## Causes for Mon

Natural: An Some minera South Africal mostly availal monopoly.



Monopoly

Monopoly is a market structure in which there is a single seller, there are no close substitutes for the commodity it produces and there rebarriers to entry.

#### Characteristics of Monopoly

 Single Seller: There is only one seller; he can control either price or supply of his product. But he cannot control demand for the product, as there are many buyers.

No close Substitutes: There are no close substitutes for the product. The buyers have no alternatives or choice. Either they have to buy the product or go without it.

**Price:** The monopolist has control over the supply so as to increase the price. Sometimes he may adopt price discrimination. He may fix different prices for different sets of consumers. A monopolist can either fix the price or quantity of output; but he cannot do both, at the same time.

No Entry: There is no freedom to other producers to enter the market as the monopolist is enjoying monopoly power. There are strong barriers for new firms to enter. There are legal, technological, economic and natural obstacles, which may block the entry of new producers.

Firm and Industry: Under monopoly, there is no difference between a firm and an industry. As there is only one firm, that single firm constitutes the whole industry.

#### auses for Monopoly

Natural: A monopoly may arise on account of some natural causes. Some minerals are available only in certain regions. For example, South Africa has the monopoly of diamonds; nickel in the world is mostly available in Canada and oil in Middle East. This is natural monopoly.

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- Technical: Monopoly power may be enjoyed due to technical reasons. A firm may have control over raw materials, technicals knowledge, special know-how, scientific secrets and formula enable a monopolist to produce a commodity. e.g., Coco Col
- Legal: Monopoly power is achieved through patent right copyright and trade marks by the producers. This is called
- 4. Large Amount of Capital: The manufacture of some good requires a large amount of capital or lumpiness of capital firms cannot enter the field because they cannot afford to ime such a large amount of capital. This may give rise to monopole For example, iron and steel industry, railways, etc.
- State: Government will have the sole right of producing and self some goods. They are State monopolies. For example, well public utilities like electricity and railways. These publicutility are undertaken by the State.

## Price and Output Determination

A monopolist like a perfectly competitive firm tries to maxim his profits.

A monopoly firm faces a downward sloping demand curve is, its average revenue curve. The downward sloping demander implies that larger output can be sold only by reducing the price marginal revenue curve will be below the average revenue curve

The average cost curve is 'U' shaped. The monopolist will have the mono equilibrium when MC = MR and the MC curve cuts the  $MR^{ab}$ 

In figure 8.4, AR is the Average Revenue Curve and MRi Marginal revenue curve. AR curve is falling and MR curve lies of the monopolist in the MC AR. The monopolist is in equilibrium at E where MR = MC produces OM units of produces OM units of output and fixes price at OP. At OM output and fixes price at OP. average revenue is MS and average cost MT. Therefore the profi

### Advantages

- Monopoly t can enjoy be the reductio prices. This
- 2. Monopoly fit for research ar quickly.
- 3. There are a nu combine togel In such a case,

Although ther monopoly power mi



y be enjoyed due to technical l over raw materials, technical ientific secrets and formulather commodity. e.g., Coco Cola. nieved through patent rights, producers. This is called legal

e manufacture of some goods al or lumpiness of capital. Al ise they cannot afford to inves his may give rise to monopoly try, railways, etc.

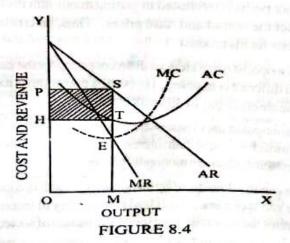
ole right of producing and selling opolies. For example, we have railways. These public utilities

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ard sloping demand curve, the wnward sloping demand curv only by reducing the price. the average revenue curve. iped. The monopolist will be e MC curve cuts the MR cul

Revenue Curve and MR ist falling and MR curve lies be um at E where MR = MC. s price at OP. At OM output ost MT. Therefore the profit

unit is MS-MT = TS. Total profit is average profit (TS) multiplied by output (OM), which is equal to HTSP. The monopolist is in equilibrium at point E and produces OM output at which he is earning maximum profit. The monopoly price is higher than the marginal revenue and marginal cost.



#### Advantages

- Monopoly firms have large-scale production possibilities and also can enjoy both internal and external economies. This will result in the reduction of costs of production. Output can be sold at low prices. This is beneficial to the consumers.
- Monopoly firms have vast financial resources which could be used for research and development. This will enable the firms to innovate
- There are a number of weak firms in an industry. These firms can combine together in the form of monopoly to meet competition. In such a case, market can be expanded.

Although there are some advantages, there is a danger that monopoly power might be misused for exploiting the consumers.

#### Disadvantages

- A monopolist always charges a high price, which is higher thanks competitive price. Thus a monopolist exploits the consumers
- A monopolist is interested in getting maximum profit. Hemp restrict the output and raise prices. Thus, he creates artificial scarcity for his product.
- A monopolist often charges different prices for the same production from different consumers. He extracts maximum price according to the ability to pay of different consumers.
- A monopolist uses large-scale production and huge resourcest promote his own selfish interest. He may adopt wrong practics to establish absolute monopoly power.
- In a country dominated by monopolies, wealth is concentrated the hands of a few. It will lead to inequality of incomes. This against the principle of the socialistic pattern of society.

#### Methods of Controlling Monopoly

- legal actions. Anti-monopoly legislation has been enacted to the growth of monopoly. In India, the Monopolies and Restriction Trade Practices Act was passed in 1969. The objective of Act is to prevent the unwanted growth of private monopolies of individuals and families.
- 2. Controlling Price and Output: This method can be applied the case of natural monopolies. Government would fix either or output or both.
- 3. Taxation: Taxation is another method by which the monopolish power can be prevented or restricted. Government can implement tax on a monopoly firm, irrespective of its level of our Consequently, its total profit will fall.

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- 5. Consumalso be consumalso be

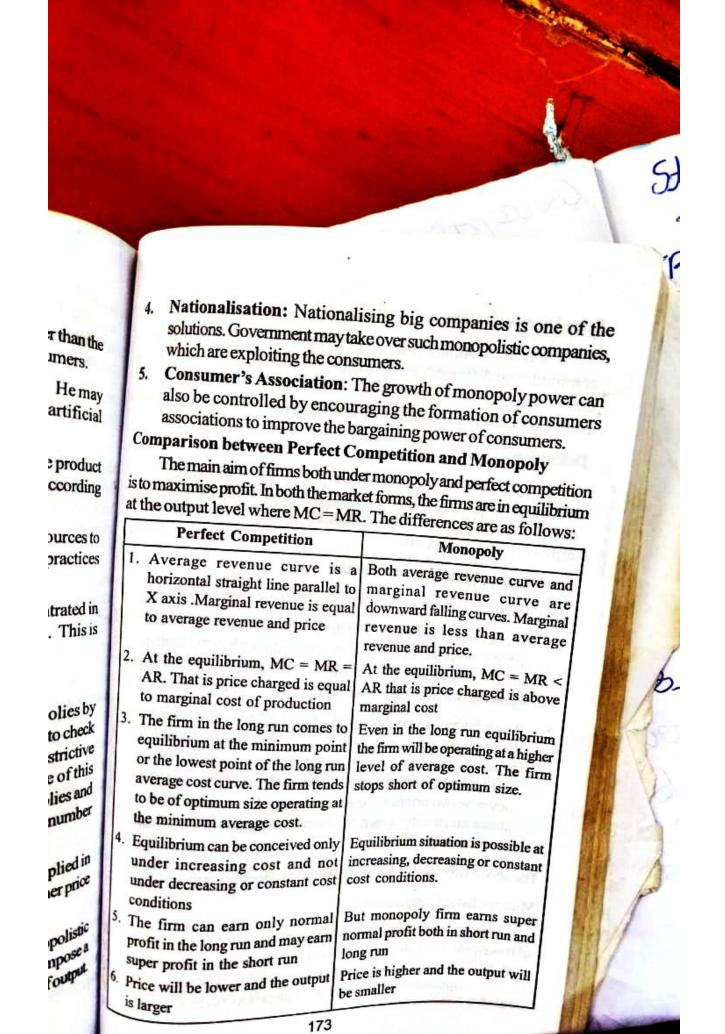
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- 3. The firm in the equilibrium at t or the lowest pour average cost cur to be of optimum the minimum as
- Equilibrium can under increasi under decreasing conditions
- The firm can exprofit in the long super profit in the
- Price will be lower is larger

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### Price Discrimination

Price discrimination means the practice of selling the tag commodity at different prices to different buyers. If the months charges different prices from different consumers for the see commodity, it is called price discrimination or discriminating month

### Definition

Price discrimination may be defined as "the sale of technical similar products at prices which are not proportional to margin cost". For example, all cinema theatres charge different prices in different classes of people.

## Conditions of Price Discrimination

Price discrimination is possible only if the following conditions are fulfilled

- The demand must not be transferable from the high priced many to the low priced market. If rich people do not buy the high-print deluxe edition of the book, but wait for the low-priced popular edition to come out, then personal discrimination will fail.
- The monopolist should keep the two markets or different markets separate so that the commodity will not be moving from one mand to the other market. If it is possible to buy the product in the cheek market of the monopolist and sell it in the dearer market, there of never be two never be two prices for the commodity. If the industrial buyers cheap electricity uses it for domestic consumption, then trail discrimination usit out discrimination will fail.

The above two conditions are essential to adopt price discrimination

# Monopolistic Competition

Monopolistic competition, as the name itself implies, is a blending of monopolistic competition, as the name itself implies, is a blemmarket situation in which market situation in which a large number of sellers produce goods will are close substitutes of are close substitutes of one another. The products are similar but policy of sellers are selle

identical. consumer the same ti as they pro competitio

The follows context.

- 1. Shampo
- 2. Tooth Par

#### Characteris

- (i) Existence competition, large. The te towards the t independentl determines its increasing or o finns.
- (ii) Product d monopolistic altering goods ways.

Product d Product differe quality differer difference. It m different chem <sup>wor</sup>kmanship,

anical. The particular brand of product will have a group of loyal sumers. In this respect, each firm will have some monopoly and at me same time the firm has to compete in the market with the other firms list heyproduce a fair substitute. The essential features of monopolistic me mpetition are product differentiation and existence of many sellers. vlor. refollowing are the examples of monopolistic competition in Indian. ally Shampoo Sun Silk, Clinic Plus, Ponds, Chik, Velvette, inal Kadal, Head and Shoulder, Pantene, Vatika, for Garnier, Meera Binaca, Colgate, Forhans, Close-up, Promise, Tooth Paste -Pepsodent, Vicco Vajradanti, Ajanta, Anchor, iled. Babool. haracteristics of Monopolistic Competition rket iced Existence of Large Number of firms: Under monopolistic impetition, the number of firms producing a commodity will be very ular ge. The term 'very large' denotes that contribution of each firm wards the total demand of the product is small. Each firm will act cets dependently on the basis of product differentiation and each firm dd mines its price-output policies. Any action of the individual firm in. creasing or decreasing the output will have little or no effect on other COL rot Product differentiation: Product differentiation is the essence of Onopolistic competition. Product differentiation is the process of thering goods that serve the same purpose so that they differ in minor on Product differentiation can be brought about in various ways. hoduct differentiation is attempted through (a) physical difference; (b) Mality difference; (c) imaginary difference and (d) purchase benefit ofference. It may be by using different quality of the raw material and ferent chemicals and mixtures used in the product. Difference in orkmanship, durability and strength will also make product menes (



differentiation. Product differentiation may also be effected by the customers some benefits with the sale of the product. Facilities like he servicing, home delivery, acceptance of returned goods, etc. would make the customers demand that particular brand of product wie such facilities are available. Product differentiation through effects advertisement is another method. This is known as sales promote By frequently advertising the brand of the product through press. radio, and TV, the consumers are made to feel that the brand product by the firm in question is superior to that of other brands sold by other firms.

(iii) Selling Costs: From the discussion of 'product differentiation' we can infer that the producer under monopolistic competition has incur expenses to popularise his brand. This expenditure involved selling the product is called selling cost. According to Prof. Chambrid selling cost is "the cost incurred in order to alter the position or shaped the demand curve for a product". Most important form of selling and advertisement. Sales promotion by advertisement is called non-price competition.

(iv) Freedom of entry and exit of firms: Another important feather is the freedom of any firm to enter into the field and produce field if so chosen are field if so chosen. There are no barriers as in the case of monopoly

Monopolistic competition presupposes that customers have define preferences for particular varieties or brand of products. Hence pricing is not the problem but product differentiation is the problem and competition is not on prices but on products.

Thus in monopolistic competition, the features of monopoly and perfect competition are partially present.

Determination of Equilibrium price and output under monopolistic

The monopolistic competitive firm will come to equilibrium on the principle of equalising MR with MC. Each firm will choose that price

and output wi equilibrium o

MC and curves. The slo are shown as . MC. The equil at OP. The dif SQ. The outpu by the rectang commodity and Profit in the she

The differ either abnorma costs and rever



adoutput where it will be maximising its profit. Figure 8.5 shows the quilibrium of the individual firm in the short period.

### Short Period Equilibrium of a Monopolistic competitive firm with Profit

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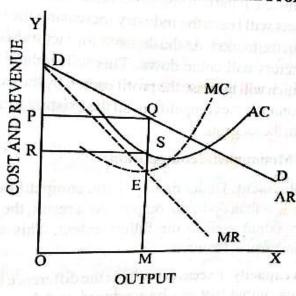


FIGURE 8.5

MC and AC are the short period marginal cost and average cost urves. The sloping down average revenue and marginal revenue curves Te shown as AR and MR. The equilibrium point is E where MR = MC. The equilibrium output is OM and the price of the product is fixed NOP. The difference between average cost and average revenue is <sup>§</sup>Q. The output is OM. So, the supernormal profit for the firm is shown by the rectangle PQSR. The firm by producing OM units of its commodity and selling it at a price of OP per unit realizes the maximum Profit in the short run.

The different firms in monopolistic competition may be making wither abnormal profits or losses in the short period depending on their costs and revenue curves.

In the long run, if the existing firms earn super normal production will reduce its share in the marker. The array revenue of the product will come down. The demand for factors production will increase the cost of production. Hence, the same profit will be reduced. If the existing firms incur losses in the long some of the firms will leave the industry increasing the share the existing firms in the market. As the demand for factors becomes the price of factors will come down. This will reduce the control production, which will increase the profit earned by the existing firms under monopolistic competition, all the existing firms will see that the long run.

## Wastages of Monopolistic competition

- Unemployment: Under monopolistic competition, the firm produce less than optimum output. As a result, the produces capacity is not used to the fullest extent. This will lead is unemployment of resources.
- 2. Excess capacity: Excess capacity is the difference between the optimum output that can be produced and the actual output produced by the firm. In the long run, a monopolistic firm produce an output which is less than the optimum output that is the output corresponding to the minimum average cost. This leads to exact capacity which is regarded as waste in monopolistic competitor.
- Advertisement: There is a lot of waste in competitive advertisements under monopolistic competition. The wasteld and competitive advertisements lead to high cost to consumers.
- 4. Too Many Varieties of Goods: Introducing too many varieties of a good is another waste of monopolistic competition. The good varieties would be desirable and colour. A reasonable number of a few are produced.
- Inefficient Firms: Under monopolistic competition, inefficient firms charge prices higher than their marginal cost. Such type

pelicient firms preference for sa so exist. Efficien the former may

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Oligopoly refer silbs only a few sell goducts.

Characteristics of (

- j. Interdependent interdependence each firm closely in price, output, the fortune of its only the market d of other firms in t
- Group Behavio
   Operation. The same time, the determinance competed with the competer of the same time.

Price Rigidity: Anoth Price is sticky or rigid from the rival firms. It selection will be follows profit. Expecting the fases the price, the rival customers. In both we price is rigid.

inefficient firms should be kept out of the industry. But, the buyers' , the preference for such products enables the inefficient firms to continue rage to exist. Efficient firms cannot drive out the inefficient firms because rsof the former may not be able to attract the customers of the latter. fthe run, Oligopoly fthe Oligopoly refers to a form of imperfect competition where there ess. will be only a few sellers producing either homogenous or differentiated st of moducts. irm eam Characteristics of Oligopoly Interdependence: The most important feature of oligopoly is interdependence in decision - making. Since there are a few firms, each firm closely watches the activities of the other firm. Any change rms in price, output, product, etc., by a firm will have a direct effect on tive the fortune of its rivals. So an oligopolistic firm must consider not 1 to only the market demand for its product, but also the possible moves of other firms in the industry. Group Behaviour: Firms may realise the importance of mutual the co-operation. Then they will have a tendency of collusion. At the put same time, the desire of each firm to earn maximum profit may ices encourage competitive spirit. Thus, co-operative and collusive trend put as well as competitive trend would prevail in an oligopolistic ess on. Price Rigidity: Another important feature of oligopoly is price rigidity. ive Price is sticky or rigid at the prevailing level due to the fear of reaction and from the rival firms. If an oligopolistic firm lowers its price, the price reduction will be followed by the rival firms. As a result, the firm loses b profit. Expecting the same kind of reaction, if the oligopolistic firm jes laises the price, the rival firms will not follow. This would result in losing ods customers. In both ways the firm would face difficulties. Hence the rof nly Price is rigid. ent of 179