# **SYLLABUS REFERENCE 2.2<sup>1</sup>**

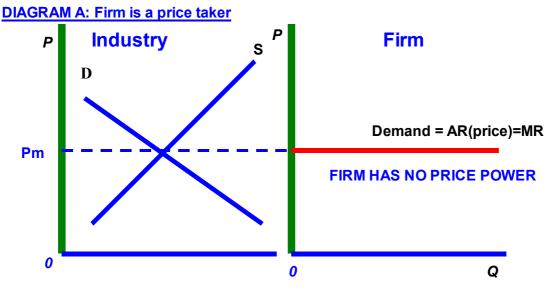
**Economics Models: Perfect Competition + Monopoly** 

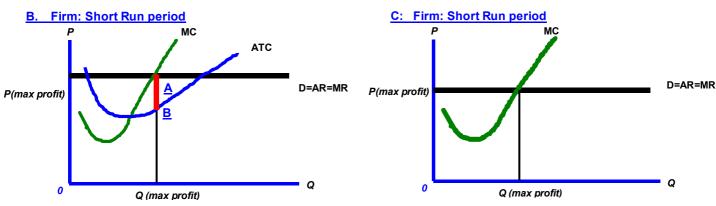
## The PC model suggests that:

- 1. Efficient firms forced to produce at lowest point on AC curve<sup>2</sup>
- 2. Lower prices
- 3. Higher output for the Industry than in Monopoly
- 4. Resource Allocation is better
- 5. Assumptions of the Model:
- Many buyers and sellers
- Homogenous product
- Perfect knowledge
- No barriers to entry or exit

#### **SHORT RUN AND LONG RUN**

- Short run ~ at least one Fop is fixed
- Long run ~ all factors variable



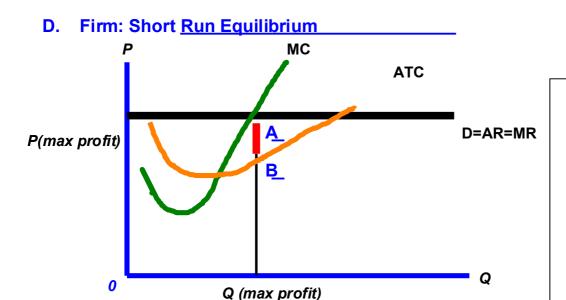


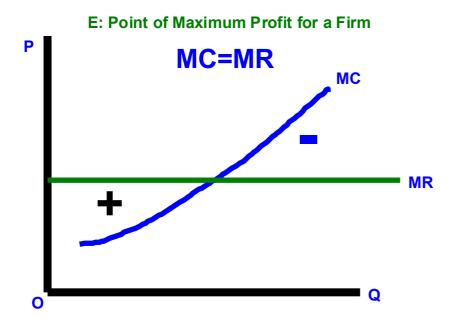
<sup>&</sup>lt;sup>1</sup> Page 1 of 3. TKB/SL/HL

<sup>&</sup>lt;sup>2</sup> In the case of the above diagram this is not shown as it is possible to produce 'inefficiently' in the short run and earn S/N profits at AB

# SYLLABUS REFERENCE 2.2 HL EXTENSION<sup>3</sup>

Economics Models for Competition: Perfect Competition <sup>4</sup> What guides the firm? Profit<sup>5</sup>? Maximisation at MC=MR and MC=AR (allocative efficiency)





- Note: A firm will supply any quantity in the short run as long as it covers its AVC.
   Therefore the supply curve of the firm in PC is that part of the MC which lies above the AVC
- o In other words
  the firm does
  not have to
  cover all of its
  costs (fixed
  costs) in the
  short run. In
  the long run all
  costs have to be
  covered.

<sup>&</sup>lt;sup>3</sup> Page 2 of 3

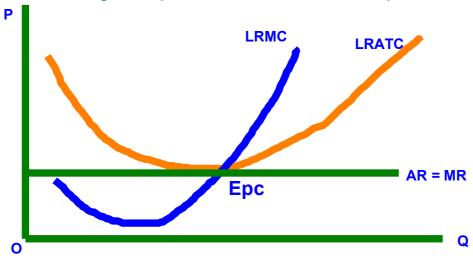
<sup>&</sup>lt;sup>4</sup> MC = MR applies to all market structures

<sup>&</sup>lt;sup>5</sup> Always a consideration. Prestige and sales revenue maximisation (market share) also important. Shareholder vs Owner debate. See webnote 422.

# **SYLLABUS REFERENCE 2.2 HL EXTENSION**<sup>6</sup>

# **Economics Models for Competition: Perfect Competition**

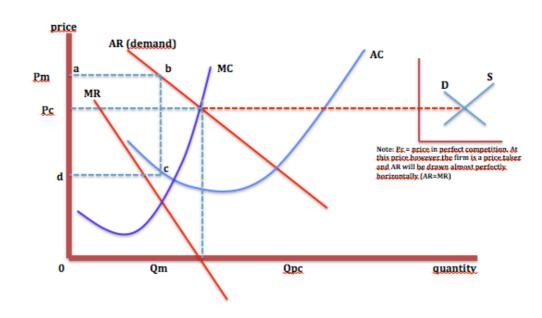
#### F: Long Run Equilibrium of Firm in Perfect Competition



### G. 2 Firms: Comparison of Perfect and Monopoly

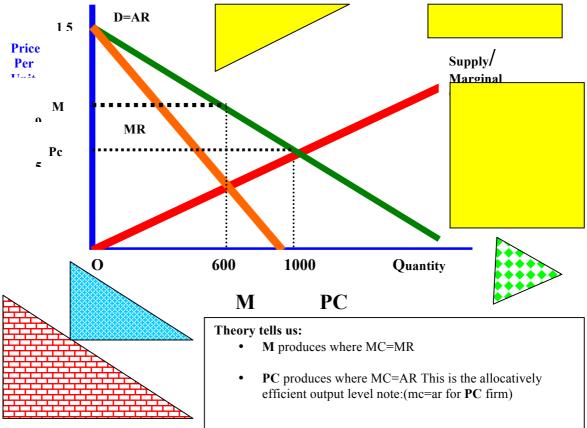
Remember the maximum profit finder is where:

## MR=MC



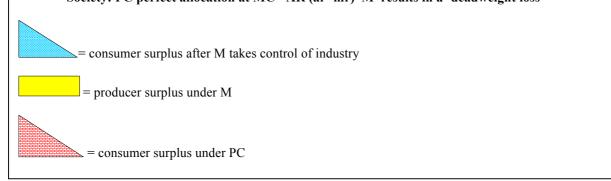
<sup>&</sup>lt;sup>6</sup> Page 3 of 3

# Perfect Competition and Monopoly: Compare on Industry



# **Evaluate Perfect competition and Monopoly on an industry** level:

- Industry is originally in PC and shifts into Monopoly. How are the stakeholders affected?
- Producer: M- output falls and price rises to M9. If a Monopolist takes over a PC some firms will be shut down in order to bring production to 600 units. Unemployment occurs. PC output rises (1000 units) and price falls to Pc 5.
- Consumer: PC lower prices surplus rises M higher prices surplus falls
- Society: PC perfect allocation at MC= AR (ar=mr) M results in a 'deadweight loss'



#### **Evaluation:**

## **Perfect Competition (Firm)**

- 1. **D** = **P** = **AR**=**MR**=**MC** and **AR** = **AC** (at lowest point)
- 2. perfect productive / technical efficiency
- 3. PC approaches the concept of Pareto optimality which identifies a level of production in an economy whereby no person can be made better off without another person being worse off. Pareto efficiency must include:
  - Productive efficiency -AC
  - Allocative efficiency- PPF
  - Distributional efficiency, whereby consumers do not wish to spend disposable income in any other way

# **Monopoly**

- 1. **AR >AC, MR=MC, AC** not likely to be at lowest point of AC so it is "productively inefficient" **MC** ➤ **AC**
- 2. poor productive /technical efficiency
- 3. if the monopoly firm enjoys economies of scale then the AC operating point (according to MC=MR) could be lower than for the industry in PC and monopoly could be lower. However price is still likely to be greater than MC and AR >AC = S/N profits

## Resource Allocation: Economic efficiency and productive (technical) efficiency.

- 1. What is the optimal level of resource allocation? Pareto Efficiency suggests Firms in PC are productively efficient.
- 2. Under PC the consumer is sovereign and influences WHAT? is produced.
- 3. The monopoly firm has on the other hand producer sovereignty with a large degree of price power.
- 4. Resources (FoP) follow profits and therefore if resources can be allocated efficiently then competition will enter the industry and competition follows. This is assuming of course that the factors of production can be allocated from one industry to another. In reality factor immobility may play a significant factor in reducing the level of competition for firms at least in the short run but also in some cases in the long run e.g. restaurants and small monopolistic firms that enjoy a special location and competing firms cannot affect their price power in the long run by offering a competitive alternative nearby.
  - See webnote 115
  - See syllabus section 2.3 'productive and economic efficiency'
- 5. To show allocative efficiency use the PPF or MSB = MSC ( see syllabus section 1.3 and 'overproduction'.
- 6. To show productive efficiency use the ATC

#### **Evaluation Summary**

# Monopoly: **for**

- 1. Economies of scale more likely than PC
- 2. S/N profits may be reinvested in R+D
- 3. No overproduction likely as in PC and less possibility of externalities
- 4. Government regulation can improve consumer surplus

# Monopoly: against

- 1. S/N profits in the long run
- 2. Poor allocation
- 3. Productively inefficient not at lowest point of AC
- 4. Compared to PC price is higher and output lower
- 5. 2 opposite may well be inaccurate
- 6. See also price discrimination by a monopolist