

Mark Scheme (Results)

Summer 2014

Pearson Edexcel GCE in Economics (6EC03) Paper 01



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## **General Marking Guidance**

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

If the **key is incorrect** then the maximum explanation mark is 2, i.e. 0+2=2

## Knockout marks (or rejection marks):

Candidates can be awarded up to 2 marks, 1 per point, for knocking out incorrect answers. This only counts if they have given a valid economic reason to go with their answer, where they have added value to the question.

E.g. for question 1, explaining it's not horizontal integration because that is where you merge/takeover a firm at the same stage in the production process/industry.

Candidates can also receive knockout marks without explicitly selecting a letter, if it's a clear reference is made to a **key**.

Question Number	Answer	Mark
1	Correct option B (1 mark) Vertical – at a different stage of the same industry or process of production or same final product (1) Backwards - it is previous/earlier/towards raw materials/away from consumer (1)	(4)
	Reasons or benefits of merger $(1+1)$ e.g. rationalisation Application to the dairy industry (1) e.g. Proper Welsh is a primary industry. Only award the application marks if relevant to backward integration.	
	Knock out examples It cannot be D because conglomerate integration involves merging with a firm in a different industry It cannot be C because forward integration is towards the consumer	

Question Number	Answer	Mark
2	Correct option E (1 mark) Definition of a price taker e.g. has to sell at the market price (1) Horizontal or perfectly elastic demand curve (1) – could also be awarded from their diagram (not both) Explanation of perfect competition: one characteristic, e.g. no barriers to entry or exit, many firms, homogenous product (1); Diagram showing horizontal AR=MR (1 – if not previously awarded); link to market equilibrium in a separate market or industry diagram (1) Application to cherries – they seem very similar (1) Examples of knock out: It is not A as we assume they are a profit maximiser operating where MC=MR It is not C as MC=AC is the productive efficiency point and this will only happen in the LR	(4)

Question number	Answer	Mark
3	Correct option B (1mark)	(4)
	Definition profit satisficing (making enough profit to keep shareholders happy/sufficient/just enough/target/fixed amount) (1) Reasoning, e.g. they may have other objectives (1) It may mean long run profit maximisation (1) Reason why this occurs e.g. divorce of ownership from control, principal agent problem (1)	
	Diagram to illustrate minimum profit as range of output levels (1)	
	Application – people may be shareholders for other reasons than profit e.g. winning matches, attendance at matches, brand development (1 + 1)	
	Example of knock out: It's not C as profit maximising is where MC=MR It's not A as low dividends are likely to make share prices fall (or other logical reasons why share prices change)	

Question Number	Answe	r					Mark
4	Correct	t Option D	(1 mark)				(4)
	Output per week	Total revenue (£millions)	Average revenue (£millions)	Total cost (£millions)	Average cost (£millions)	Marginal cost (£millions)	
	0	0	-	10	-	-	
	1	40	40	25	25	15	
	2	60	30	34	17	9	
	3	78	26	52	17.3	18	
	4	96	24	96	24	44	
	5	105	21	150	30	54	
	Definition much as Identifion profits of Filling in profit (1 sufficien	on sales ma s you can w cation that or no super n columns w I mark for e nt): (1 + 1-	iximisation vithout mak at sales ma normal pro- vith correct each correc + 1)	AC=AR or king a loss ( aximisation fits/loss (1) AR, TC, AC t column u	TC=TR; <u>or</u> (1) there are r C, TR-TC or o to 4 units	selling as normal total is	
	Diagran Output	n showing A is at £96 m	AC=AR (1) iillion TR/T(	C <u>or</u> £24 m	illion AR/A	C (1)	

Question Number	Answer	Mark
5	Correct Option A (1 mark)	(4)
	Definition of oligopoly e.g. a few firms dominate the market (1) Supermarkets are <b>interdependent</b> (1)	
	Other firms will follow if prices are cut (1) Firms will not follow if prices rise or other asymmetric reaction comments (1)	
	Diagram showing a kinked demand curve with annotation or explanation of inelastic section for downward moving prices or elastic section for upward moving prices (1 +1) – Note kinked demand curve is not required	
	Pay off matrix correctly showing that the firm will not change prices (1 + 1)	
	Application – bread is regularly purchased and therefore easy to spot price changes (1) or often a loss leader (1)	
	Example of a knock out: It's not C as if it is tacit collusion it has not been controlled by the regulator/competition authorities It's not D because supermarkets use non price competition such as loyalty cards and customer service schemes	

Question Number	Answer	Mark
6	Correction Option C (1Mark) Definition of contestability e.g. no/low barriers to entry or exit or no sunk costs (1). May be implicit. Reasons why barriers to entry might rise (or reduced exit options) (1 + 1 + 1) e.g. economies of scale, power to advertise, giving firms monopoly power to limit competition or raise prices. The reasons must be linked to contestability not competitiveness. Role of the regulator, e.g. protect consumer interest/welfare (1) Identification that it is horizontal integration (1) Example of knock out: It's not D because the market size could get bigger or smaller It's not B because consumer surplus is likely to fall if prices rise	(4)

Question Number	Answer	Mark
7	Correction Option B Definition of allocative efficiency, e.g. the price is equal to the marginal cost (AR=MC or P=MC) (1) Explanation of monopoly – single firm dominates or 25%+ market share (1) Explanation that the price has been set at a point that maximises (consumer/producer) welfare (1); Monopoly may do this as marginal cost pricing has been imposed by the government (1) Annotation of diagram showing consumer/producer welfare(1)	(4)
	Example of knock outs (can also come from annotating the diagram) It's not C because M is not at the lowest point of AC It's not D because this is revenue maximisation (or the area KLMN represents SNP for a revenue maximising firm) It's not D as shown by a correctly annotated profit maximising area on their diagram (connecting AR and AC at output T – this will involve a new horizontal line meeting the AC curve)	

Question Number	Answer	Mark
8	Correction Option A Meaning of PFI: major infrastructure/buildings/project/large scale contracts are issued by governments to private firms (1) It is then <b>leased</b> or <b>rented</b> to the public sector (1) over 25-30 years (1) Benefits to the government e.g. – it does not have to borrow this year (off the balance sheet), can spend on current demands, useful in times of fiscal austerity, makes efficient use of specialists, reduces risk for government, leads to more immediate public services, creates competition at point of tendering, "the government's credit card"(1 + 1 + 1) Costs to the government e.g leading to higher overall costs in the long run (1) – these may be incorporated within knock out marks Application to hospitals, e.g. more specialist hospitals or more up to date technology, better quality service(1) Examples of knock outs: It's not C as PFI will decrease x-inefficiency as there is competition during the tendering process It's not D as to exit the contract there will be penalty costs It's not B as the government achieve a lower rate due to carrying less risk	(4)

# Question 9 The chewing gum market

Question Number	Answer	Mark
9a	Theory (2): Oligopoly (1) where a few firms dominate the market, or similar explanation (1) <b>OR</b> Monopoly (1) where one firm dominates the market/one firm with more than 25% market share (legal definition) Application (2): 2 firm concentration ratio of 61% (2) 3 firm CR of 75% (2) 4 firm CR 81% (2) 5 firm CR 83% (2) Other application (1 + 1) e.g. – Wrigley has 35% market share or Cadbury's has 26%(1) which is greater than the 25% legal minimum (1) other evidence of oligopoly behaviour e.g. strong brand names, collusive behaviour, barriers to entry, high sunk cost, high cost of research (1)	(4)
	Reserve one application mark for use of Figure 1	
9b	<ul> <li>KAA 4 (may or may not include a definition mark) Definition (1): A patent is a legal protection of a design idea or process (1) or, a kind of copyright (1)</li> <li>Benefits of patents (2+2 or 3 +1) might include: For firms: <ul> <li>Helps to develop a competitive advantage via a unique feature</li> <li>Provides a source of monopoly power</li> <li>Barriers to entry</li> <li>Give firms short/medium term abnormal profits</li> <li>Enables firms to develop into new market</li> </ul> </li> <li>Benefits to economy as a whole: <ul> <li>Encourage Research and Development</li> <li>Existing firms can take risks with new idea</li> <li>new ideas from universities will have practical uses</li> <li>Innovation is encouraged e.g. dynamic efficiency</li> <li>Macro benefits, e.g. multiplier effects</li> <li>Investment in research in turn in the long run may benefit society as a whole e.g. cancer</li> <li>External benefits e.g. less passive smoking</li> </ul> </li> <li>Benefits to other stakeholders: <ul> <li>Government benefits e.g. reduced costs of cleaning pavements</li> <li>Consumer benefits e.g. more choice &amp; improved quality</li> </ul> </li> </ul>	(8)

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	Evaluation (2+2 or 3+1 or 4+0):	
	Patents allow supernormal profits to be made	
	(question of fairness),	
	<ul> <li>Patents stifle competition or innovation by</li> </ul>	
	others;	
	<ul> <li>alternatives to patents might be considered,</li> </ul>	
	e.g. subsidies to university research	
	<ul> <li>crowding out of other innovation</li> </ul>	
	<ul> <li>leading to higher prices or reduced choice</li> </ul>	
	<ul> <li>disadvantages of monopoly</li> </ul>	
	may cause x-inefficiency	
	<ul> <li>Other problems of patents e.g. – cost to</li> </ul>	
	achieve, only held for a limited time, not fair to	
	firms who cannot gain them, enforcement	
	issues	

Question	Answer	Mark
9b	KAA 4 (may or may not include a definition mark) Definition (1): A patent is a legal protection of a design idea or process (1) or, a kind of copyright (1)	(8)
	<ul> <li>Benefits of patents (2+2 or 3 +1) might include:</li> <li>For firms: <ul> <li>Helps to develop a competitive advantage via a unique feature</li> <li>Provides a source of monopoly power</li> <li>Barriers to entry</li> <li>Give firms short/medium term abnormal profits</li> <li>Enables firms to develop into new market</li> </ul> </li> </ul>	
	<ul> <li>Benefits to economy as a whole: <ul> <li>Encourage Research and Development</li> <li>Existing firms can take risks with new idea</li> <li>New ideas from universities will have practical uses</li> <li>Innovation is encouraged e.g. dynamic efficiency</li> <li>Macro benefits, e.g. multiplier effects</li> <li>Investment in research in turn in the long run may benefit society as a whole e.g. cancer</li> <li>External benefits e.g. less passive smoking</li> </ul> </li> <li>Benefits to other stakeholders: <ul> <li>Government benefits e.g. reduced costs of cleaning pavements</li> <li>Consumer benefits e.g. more choice &amp; improved quality</li> </ul> </li> </ul>	
	CAP 3 KAA if only one benefit of patents Evaluation (2+2 or 3+1 or 4+0):	
	<ul> <li>Patents allow supernormal profits to be made (question of fairness),</li> <li>Patents stifle competition or innovation by others;</li> <li>Alternatives to patents might be considered, e.g. subsidies to university research</li> <li>Crowding out of other innovation</li> <li>Leading to higher prices or reduced choice</li> <li>Disadvantages of monopoly</li> <li>May cause x-inefficiency</li> <li>Other problems of patents e.g. – cost to achieve, only held for a limited time, not fair to firms who cannot gain them. enforcement issues</li> </ul>	

Question	Answer	Mark
	Deserve 2 meaning familie menne	
90	Reserve 2 marks for diagram: Shift showing increasing costs (e.g. legal costs) <b>or</b> falling/insufficient demand (1) and loss area/smaller profit connected with MC=MR (1)	
	<ul> <li>Reasons might include (2+2 or 3+1):</li> <li>Nicotine gum manufacturers are acting in a threatening way (game theory might be used to develop this argument)</li> <li>Too many competitors for the firm to make supernormal profits</li> <li>Huge costs of operating in US relative to other countries, and other set up costs, e.g. £500 000 annual cost base in US</li> <li>It has reached shut down point or not making enough profit</li> <li>It does not expect demand to grow sufficiently in the future</li> <li>Demand was not as high as expected. 'Gum market is shrinking' in Extract 2</li> <li>Challenge to patent</li> <li>Nicotine firms might be cross-subsidising in the US, or similar comments on the confectionery market being directly affected by the nicotine market problems</li> <li>other things are not equal</li> <li>Lack of commercial opportunities in US</li> </ul>	
	<ul> <li>Evaluation 6 marks: (3x2 marks or 2x3 marks). Points might include: <ul> <li>Not enough information to say as insufficient data provided</li> <li>Other markets might be more profitable, e.g. Ireland/EU</li> <li>New products find the US more difficult than other countries to break into – higher marketing barriers</li> <li>Use of game theory might show how new entrants are deterred</li> <li>Cost and revenue factors work together to magnify the impact, or other weighing together of the factors</li> <li>Depends on the degree to which they can cross subsidise losses in the US, the amount of retained profits within Revolymer</li> <li>In the LR the situation may improve e.g. – working with commercialisation partners as in Canada (extract 2 line 10)</li> </ul> </li> </ul>	
	<ul><li>It might have been better to stay in the US.</li><li>Prioritisation of the reasons with justification</li></ul>	

Question Number	Answer	Mark
Number 9d	<ul> <li>Award up to 4 strategies (4x2 marks), or (3+3+2) or (2x4 marks)</li> <li>Strategies might include: <ul> <li>Pricing policies (may count as more than one strategy): predatory, limit pricing, sales max</li> <li>Non-pricing strategies, e.g. heavy marketing (may count as more than one strategy)</li> <li>Cross subsidisation</li> <li>Existing firms might cut own costs</li> <li>Collusion</li> <li>New ideas might be developed to create barriers to entry</li> <li>Other barriers to entry discussion</li> <li>Merger &amp; acquisition activity is likely e.g. new entrants being bought up</li> <li>Challenge legal patents that have been awarded</li> <li>Award appropriate use of game theory to develop a point</li> <li>KAA CAP 6/8 if no reference to chewing gum manufacturers</li> </ul> </li> <li>Evaluation 8 marks (4x2 marks), or (3+3+2 marks) or (2x4 marks): <ul> <li>there might not be a reaction – very small firm, already failing in US, niche market</li> <li>Other magnitude points, e.g. size of profits of existing firms might mean that new entrants cannot compete in marketing</li> <li>US market is unlike Europe market. Might be more room for growth in Europe or elsewhere.</li> <li>Depends on whether we are in recession or growth (is the product a luxury?)</li> <li>Discussion involving game theory can earn evaluation marks, e.g. the behaviour depends on the size of the payoffs</li> <li>Size of fines, and magnitude of other legal powers</li> <li>Critical judgement of strategies set out under KAA</li> <li>Prioritisation with justification</li> </ul> </li> </ul>	16

# **Question 10 Camera retailing**

Question	Answer	Mark
10a	<b>Theory (2)</b> – Price (AR) is less than or equal to AVC <b>OR</b> Price (AR) is less than or equal to AC (long run) – (1) <b>OR</b> TR is less than or equal to TVC (1)	(4)
	<ul> <li>Explanation of the above. For example the firm is:</li> <li>making less than normal profit (1)</li> <li>making a loss which exceeds the VC (1) or making a loss (1)</li> <li>not making a contribution (1)</li> <li>able to make a smaller loss if it discontinued production (1)</li> <li>not covering its day to day costs/running costs/working capital (1) i.e. an implicit understanding of variable costs, which might be achieved using application</li> </ul>	
	A diagram showing price below AVC (1) with loss area shown (1) or other explanation using a valid diagram. Note that the diagram marks are part of the theory. <b>Application (2)</b> : Jessops was making a loss of £12 million (1) despite revenues of £304.6 million (1)	
	Since £12million is greater than the fixed costs (£8 million) so the firm is losing £4 million on variable costs alone (1 + 1) Example of variable costs: Jessops is not even covering the costs of its cameras (1) Example of fixed costs: Jessops is not covering rent (1)	

Question	Answer	Mark
10b	KAA 4 marks. Reserve 2 marks for diagram.	(8)
	2 marks For answers which discuss two difference revenue or costs changes allow up to 4 marks. The answers must be developed in different ways.	
	Diagram 2 marks.: 1 mark for <b>shift</b> (AR and MR shift, or AC shift (Costs had risen (n.b. fixed costs must be related to data, and no shift in MC)), 1 mark for <b>loss area</b> correctly linked to MC=MR, and cost and revenue curves.	
	<ul> <li>Reasons for loss (2 marks: 1+1 or 2+0) might include:</li> <li>Rising costs, with application</li> <li>Falling demand for cameras as a whole, with application</li> </ul>	
	<ul> <li>Increased competition for cameras meaning smaller market power for each firm</li> <li>Consumers buying on the Internet</li> <li>Cameras in mobile phones</li> </ul>	
	<ul> <li>Evaluation 4 marks: (2+2 or 3+1 or 4+0)</li> <li>both demand and cost shifts can be shown to magnify the impact</li> <li>Jones might be over-optimistic about end of recession – losses may continue</li> <li>Jones is going to cut costs and increase demand – profits will occur in future, but is temporarily suffering losses</li> <li>Depends on ability of Jones to reduce future losses</li> <li>Difficult to know – need more information about causes of loss, e.g. how other firms have got on, e.g. London Camera Exchange</li> <li>Camera phones are not a good substitute for all buyers</li> <li>A £12million loss is very small in comparison to a</li> </ul>	
	<ul> <li>£304.6 million revenue</li> <li>It is a combined effect, compounded by another factor</li> </ul>	

Question Number	Answer	Mark
10c	KAA 6 marks Allow up to (2x 3 marks) or (3x2 marks) or Diagram (2) plus (2+2) or (3+1)	(12)
	Answer may relate to price discrimination within Jessops or between firms within any retailing market.	
	Allow 1 mark for clear explanation of price discrimination (selling the same product at different prices) (1)	
	<ul> <li>Diagram marks (up to 2 marks)</li> <li>Inelastic AR or D linked to high price and/or elastic linked to low price (1) (can be shown through gradient of AR or D)</li> <li>Profit maximisation output and prices extrapolated from whole firm diagram (1)</li> </ul>	
	Reasons why price discrimination is possible:	
	<ul> <li>Discussion of fulfilment of conditions for price discrimination:</li> <li>Different price elasticity of demand, e.g. higher PED online as more competition</li> <li>Monopoly power. Consideration of the branding within the market, and the ability to retain customers even when prices are raised. The appeal of Jones himself might be considered as a marketing tool.</li> <li>Separation of the market, e.g. people want to try the product and receive advice in a shop, and online there is a time delay before the goods are received</li> <li>Low costs of preventing arbitrage, or similar. For people shopping in store they may or may not be prepared to go home and buy the product online. Also can consider the risks or other costs of buying on the internet.</li> </ul>	
	<ul> <li>Award application: as part of these conditions (up to a maximum of 3 marks for each condition overall), e.g.</li> <li>Jessops sells accessories at higher prices in the high street stores but the cameras are very similar prices.</li> <li>Online prices are lower so people are transferring to the online market.</li> <li>High street stores are closing for this reason</li> <li>Jones's comments on trying the cameras in the shop, the Apple-ish model, etc.</li> <li>Jones does not intend to price discriminate on the major lines, but instead have very similar prices to online. He plans to make the money on accessories</li> </ul>	

Εv	valuation: 6 (2x3 marks or 3x2 marks)	
•	Discussion of whether price discrimination is in fact	
	possible as a strategy, e.g. in the long term	
	arbitrage will become easy	
•	It's product discrimination not price discrimination	
	because costs in each market are different	
•	It's product discrimination not price discrimination	
	because 'Try before you buy' and other advice in the	
	shop means that the product in the shop is not the	
	same as the one online (or similar application	
	points)	
•	Changes in the economic cycle will affect PED, and	
	other determinants of PED	
•	Jones is willing to stake £4million that discrimination	
	is possible	
•	Depends on the season, e.g. Christmas, and the PED	
•	Depends on other factors, such as ability to park,	
	availability of other retail outlets nearby, as to the	
	willingness of face-to-face shoppers to spend.	
•	Depends on actions of competitors e.g. click and	
	collect	
•	Other criticisms of price discrimination, e.g. it can be	
	illegal in some cases, and might be investigated by	
	the competition authorities	

Question Number	Answer	Mark
10d	Award up to 4 strategies (4x2 marks), or (3+3+2 marks) or (2x4 marks)	(16)
	Any comments regarding price discrimination are NOT permitted	
	<ul> <li>Strategies MUST be linked to profit. These might include:</li> <li>Pricing policies (may count as more than one strategy): predatory, limit pricing, cost-plus, BOGOF <i>if linked to profit</i></li> <li>Non-pricing strategies (may count as more than one strategy) e.g. heavy marketing, loyalty cards, good sales information, after sales service, friendly, photo albums, posters whilst you wait</li> <li>Existing firms might cut own costs</li> <li>New ideas might be developed to create barriers to entry</li> <li>Other barriers to entry discussion</li> <li>M&amp;A activity is likely for new entrants being bought up</li> <li>BOGOF (allowed if not used as a pricing strategy)</li> </ul>	
	KAA CAP 6/8 if no reference to high street retailers	
	<ul> <li>Evaluation 8 marks (4x2 marks), or (3+3+2 marks) or (2x4 marks): <ul> <li>it might not be possible to make profits – odds are stacked against high street stores as their costs are higher</li> <li>Magnitude issues, e.g. size of cuts in number of stores by Jones is a significant shift in fixed costs</li> <li>Depends on whether we are in recession or growth (camera is luxury, large part of income, YED issues etc)</li> <li>Discussion involving game theory can earn evaluation marks, e.g. the behaviour depends on the size of the payoffs</li> <li>Depends on the actions of other firms (game theory might be used)</li> <li>Some practices are illegal e.g. predatory pricing</li> <li>Cost of policies, e.g. advertising</li> <li>The high street retailer can adapt to also become an online retailer</li> <li>Critical judgement of strategies set out under KAA</li> <li>Prioritisation with justification</li> </ul> </li> </ul>	

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