

Mark Scheme (Results)

October 2020

Pearson Edexcel International Advanced Level In Economics (WEC13/01) Unit 3: Business behaviour

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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.

Question Number	Quantitative skills assessed	Answer	Mark
1	-	 The only correct answer is B A is not correct because they are in the same industry C is not correct because they are at the same stage of the production process D is not correct because they are at the same stage of the production process 	(1)
2	QS9: Interpret, apply and analyse information in written, graphical, tabular and numerical forms.	 The only correct answer is D A is not correct because the firm is able to cover its average variable costs B is not correct because the firm has not covered its's average total costs C is not correct because the firm can cover average total costs and make normal profit 	(1)
3	QS8: Make calculations of elasticity and interpret the result.	 The only correct answer is A B is not correct because this would imply that the supply of aerospace engineers is elastic C is not correct because an increase in government support into training programmes would make the supply of labour more elastic D is not correct because a fall in the demand for aerospace products would impact the demand for labour not the elasticity of supply of labour 	(1)

4	-	The only correct answer is c	
		A is not correct because a high number of small firms can still operate in a market with a small number of large firms and significant entry barriers	
		B is not correct because high sunk costs increase barriers to entry	
		D is not correct because imperfect information makes it more difficult for firms to enter the market	(1)
5	QS2: Calculate, use	The only correct answer is B	
	and understand percentages, percentage changes and percentage	A is not correct because demand for workers falls when wages rise	
	point changes. QS8: Make calculations of elasticity and	C is not correct because the calculation is incorrect and the demand for workers falls as wages rise	
	interpret the result.	D is not correct because the calculation is incorrect.	(1)
6	QS9: Interpret, apply	The only correct answer is C	
	and analyse information in written, graphical, tabular and numerical forms.	A is not correct because an increase in the costs of production would cause a contraction in the demand for labour	
		B is not correct because a decrease in the productivity of labour would cause a contraction in the demand for labour	
		D is not correct because a decrease in net migration would decrease the supply of labour	(1)

Question Number	Answer	Mark
7 (a)	Quantitative skills assessed: QS2 : Calculate, use and understand percentages, percentage changes and percentage point changes.	
	 Application Up to 2 marks for calculation: Rs5.3bn - Rs 3.7bn = Rs1.6bn (1) Rs1.6bn/Rs3.7bn x 100 = 43.24% or 43.2% or 43% (1) 	
	Accept 43%, 43.2%, 43.24%, 43.243%, 43.2432% and other responses up to 43.2432432432%	
	NB: If correct answer (eg 43.24%) is given award full marks regardless of working.	(2)

Question Number	Answer	Mark
7 (b)	 Knowledge 2 Application 2 Knowledge 2 marks for defining 'privatisation' - the sale of state-owned organisations (public sector) to the private sector (1) Privatisation often involves removing barriers to 	
	 enable private sector firms to enter a market (1) Privatisation may make a market more competitive (1) Privatisation may involve removing the monopoly power of a state-owned firm (1) 	
	 Application - up to 2 marks for application to context of India's coal mining industry The Indian Government decided to privatise part of India's coal mining industry (1) In 2017 state-owned Coal India Ltd. was the sole producer but domestic private sector mining firms are now able to enter the industry (1) Contracts to private sector mining firms would be awarded by auction (1) 	
	Any other valid application point - 1 mark for each	(4)

Question Number	Answer	Mark
Question Number 7 (c)	Knowledge 2 Application 2 Analysis 2 Evaluation 2 Knowledge Up to 2 marks for two of the following: • Effect on employment (1) • Effect on profitability of firms (1) • Effect on price of coal (1) • Effect on Government (1) • Effect on efficiency (1) • Effect on output (1) • Effect on restrictions/regulations in a particular market Application and Analysis Up to 2 marks for relevant application and up to 2	Mark
	 marks for linked expansion of effects More employment of coal miners (1ap) if the coal industry is more profitable and efficient, higher demand for labour (1an) Entry of firms such as Rio Tinto (1ap) leading to a more internationally competitive Indian coal mining industry (1an) Entry of firms such as Rio Tinto (1ap) leading to a more internationally competitive Indian coal mining industry/ leading to a fall in coal prices because of greater competition (1an) Indian Government raises revenue from sale of mines (1ap) leading to more funds available for government spending/opportunity to reduce taxes (1an) More jobs in other industries in coal mining areas (1ap) as a result of higher incomes - regional multiplier effect (1an) 	

	Evaluation	
	Up to 2 marks for evaluative comments, eg:	
	• Mining trade unions fear that privatisation and	
	deregulation may lead to job losses if Coal India, for	
	example, needs to become more efficient	
	(rationalise) in order to compete (1+1)	
	 Privatisation and deregulation may make very little 	
	difference to employees if Coal India continues to	
	dominate the market (1+1)	
	 Changes may have a negative effect on the 	
	environment if private sector firms prioritise profit	
	above environmental factors (1+1)	
	 Changes may have a negative impact on health and 	
	safety issues if private sector mining firms prioritise	
	profit (1+1)	
	 Price of coal may not fall (1) if Coal India continues to dominate the market/if large international 	
	to dominate the market/if large international	
	mining companies are able to exert monopoly	
	power (1)	
		(8)

Question Number	Answer	Mark
7 (d)	 Knowledge 2 Application 2 Analysis 2 Quantitative skills assessed: QS9: Interpret, apply and analyse information in written, graphical, tabular and numerical forms. Knowledge Up to 2 marks for an understanding of predatory pricing eg: Predatory pricing is a deliberate strategy of driving competitors out of the market (1) by setting very low prices or selling below AVC (1) Predatory pricing is a strategy used by monopoly firms or firms with a degree of monopoly power (1) 	

 Analysis Up to 2 marks for linked explanation: In the short-run both Ola and Uber are likely to experience a fall in_profits and may even suffer 	
 losses (1) a loss will certainly occur where price is below AVC/ATC (1) Pricing below profit max where MC = MR (1) so profit is bound to fall (1) Ola or Uber may be unable to sustain a lengthy period of price cutting (1) One of the firms may be forced out of the market or they cease to adopt predatory pricing strategies (1) 	
Up to 2 marks for an accurate diagram to show predatory pricing	
 Application Up to 2 marks for application to context of India's ride-hailing market: If Ola or Uber remove competition they will be able to raise their price again (1) and secure higher long term profits (1) Low prices and possibly making losses may force some or all of the smaller rail-hailing market eg: - Jugnoo, Ixigo and Meru (1) The 3 small firms only have 4.2% of the market between them (1) Diagram related to context (labelling) (1) 	
	(6)

Question Number	Indicative content	
7 (e)	 Indicative content guidance Answers must be credited by using the level descriptors (below) in line with the general marking guidance. The indicative content below exemplifies some of the points that candidates may make but this does not imply that any of these must be included. Other relevant points must also be credited. Quantitative skills assessed: QS4: Construct and interpret a range of standard graphical forms QS9: Interpret, apply and analyse information in written, graphical, tabular and numerical forms 	
	 Knowledge, Application, Analysis (8 marks) - indicative content Definition of price discrimination (third degree) - where a firm is charging different prices to different users for the same product/service Conditions necessary for price discrimination - monopoly power (Zambia Sugar has over 90% of the market), different PED's, able to separate different consumer groups (domestic and overseas consumers) A firm gains higher profits from price discrimination when it charges a higher price to consumers with inelastic demand and a lower price to consumers with elastic demand Diagrams showing price dicrmination 	
	 Consumers who are <u>negatively affected</u> by price discrimination - consumers with inelastic demand domestic consumers who were paying 40% more than consumers of Zambia Sugar's exports 	
	 consumers of industrial sugar who were paying higher prices than others Consumers in Diagram A will lose out through price discrimination (extraction of consumer surplus by Zambia Sugar) 	

	T		
		Consumers who may <u>benefit</u> from price discrimination - consumers with	
		elastic demand (Diagram B)	
		- consumers of Zambia Sugar's exports	
	- CO	nsumers of industrial sugar who were paying lower prices than others	
		Pactrict to a maximum of Loval 2 for Knowledge Application and	
		Restrict to a maximum of Level 2 for Knowledge, Application and Analysis if no diagram is provided	
Level	Mark	Descriptor	
	0	No rewardable material.	
	-		
Level 1	1–3	Displays isolated, superficial or imprecise knowledge and	
		understanding of economic terms, principles, concepts, theories and models.	
		Use of generic material or irrelevant information or inappropriate	
		examples.	
		Descriptive approach which has no chains of reasoning.	
Level 2	4–6	Displays elements of knowledge and understanding of economic	
		terms, principles, concepts, theories and models.	
		Ability to apply knowledge and understanding to some elements of the question. Some evidence and contextual references are evident in the	
		answer.	
		Chains of reasoning in terms of cause and/or consequence are evident	
1	7 0	but they may not be developed fully or some stages are omitted.	
Level 3	7–8	Demonstrates accurate and precise knowledge and understanding of economic terms, principles, concepts, theories and models.	
		Ability to link knowledge and understanding in context using relevant examples which are fully integrated to address the broad elements of the question.	
		Analysis is clear, coherent, relevant and focused. The answer demonstrates logical and multi-stage chains of reasoning in terms of cause and/or consequence.	

	Evalua	ition (6 marks) – indicative content		
	Evalua	(o marks) – mulcative content		
	Sug	Price discrimination may not have a long-term effect on consumers. Zambia Sugar was fined ZK76 million by the CCPC and told that it must stop price discrimination and set fair prices		
		ce discrimination ends Zambia Sugar will earn lower profits and this lead to a drop in product quality		
	pai	bia Sugar may set uniform prices by raising them to the higher levels by those consumers whose demand is inelastic, especially as it has ificant market share		
		ends on the degree to which the CCPC is prepared to enforce its sion		
		ket conditions may change eg barriers to entry are lowered (more estable market) and other sugar producers are attracted into the ket		
Level	Mark	Descriptor		
	0	No rewardable material.		
Level 1	1–2	Identification of generic evaluative comments. No supporting evidence/reference to context. No evidence of a logical chain of reasoning.		
Level 2	3-4	Evidence of evaluation of alternative approaches Some supporting evidence/reference to context. Evaluation is supported by a partially-developed chain of reasoning.		
Level 3	5-6	Evaluation recognises different viewpoints and/or is critical of the evidence. Appropriate reference to evidence/context.		
		Evaluation is supported by a logical chain of reasoning.		

Question Number	Indicative content			
8	Indicative content guidance Answers must be credited by using the level descriptors (below) in line with the general marking guidance. The indicative content below exemplifies some of the points that candidates may make, but this does not imply that any of these must be included. Other relevant points must also be credited.			
	Quantitative skills assessedQS4: Construct and interpret a range of standard graphical forms.QS9: Interpret, apply and analyse information in written, graphical, tabular and numerical forms.			
	Knowledge, Application, Analysis (12 marks) – indicative content			
	Lack of managerial skills -so the business remains small			
	Lack of availability of suitable labour			
	• Lack of scope for growth within the market- because of limited market demand			
	• Limits on the extent to which the firm is able to diversify			
	ALL OF THE POINTS ABOVE MEAN THAT THE FIRM'S ABILITY TO GAIN FROM ECONOMIES OF SCALE IS LIMITED. Minimum efficient scale (MES) is reached at a low level of output			
	Cost LRAC 0 01 Output			
	• MES is reached at a relatively low level of output of Q_1 . Any growth in size and output beyond Q_1 means that the small firm is less efficient and experiences diseconomies of scale			

• The **objectives** of the owners/managers. Owner(s) may be **satisfied** with keeping the business small:

- growth is risky
- expensive
- time-consuming
- profit satisficing objective
- owner's complacency

• Limited access to finance:

- relatively small amount of retained profits
- banking sector may be unwilling to lend
- fewer options when raising external finance

• High financial costs of growth:

- legal and administration costs
- capital costs
- hiring new staff
- Many other firms competing in the market may be perfectly competitive or monopolistically competitive
- Small firms may be able to group together to share resources no real need to grow
- A small firm can offer specialised products/service appeals to consumers

• The macroeconomic climate:

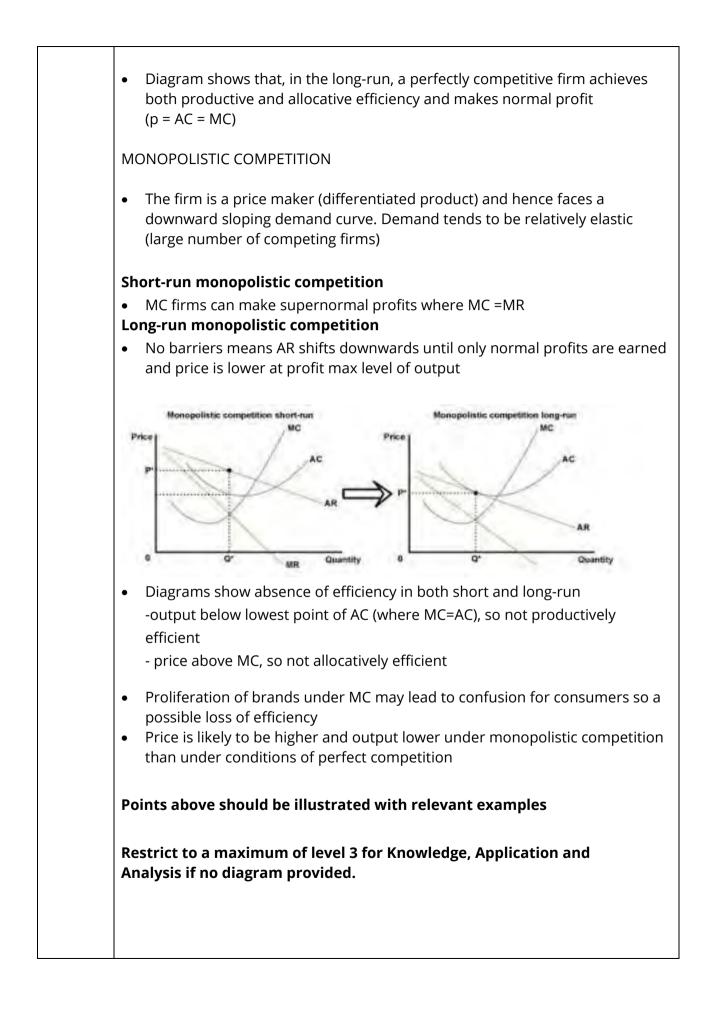
- Slow growth or recession in the economy
- Low effective demand, low consumer purchasing power
- Future uncertainty in the economy economic, political etc.
- High interest rates
- High inflation rates
- High unemployment rates

Points above should be illustrated with relevant examples Restrict to a maximum of 9 marks for Knowledge, Application and Analysis if no diagram provided.

Level	Mark	Descriptor
	0	No rewardable material.
Level 1	1–3	Displays isolated, superficial or imprecise knowledge and understanding of economic terms, principles, concepts, theories and models. Use of generic material or irrelevant information or inappropriate examples. Descriptive approach which has no chains of reasoning.
Level 2	4-6	Displays elements of knowledge and understanding of economic terms, principles, concepts, theories and models. Limited application of knowledge and understanding to economic problems in context. A narrow response or superficial, only two-stage chains of reasoning in terms of cause and/or consequence.
Level 3	7–9	Demonstrates accurate knowledge and understanding of economic terms, principles, concepts, theories and models. Ability to apply knowledge and understanding to some elements of the question. Some evidence and contextual references are evident in the answer. Analysis is clear and coherent. Chains of reasoning in terms of cause and/or consequence are evident but they may not be developed fully or some stages are omitted.
Level 4	10-12	Demonstrates accurate and precise knowledge and understanding of economic terms, principles, concepts, theories and models. Ability to link knowledge and understanding in context using appropriate examples which are fully integrated to address the broad elements of the question. Analysis is clear, coherent, relevant and focused. The answer demonstrates logical and multi-stage chains of reasoning in terms of cause and/or consequence.
	 Shore grow grow Fact chare chare Gove band nece A che own 	tion (8 marks) – indicative content rt-run/long-run: most businesses start out small. Over time many will ors such as macroeconomic climate and limited market demand can nge over time ernment financial support and a more favourable attitude from the king & the finance sectors may result in small firms having the essary funds to expand ange of ownership may lead to a change of objectives, with the new ers keen to grow the business Ill firms may be prone to takeover bids by larger businesses

Level	Mark	Descriptor
	0	No rewardable material.
Level 1	1–3	Identification of generic evaluative comments.
		No supporting evidence/reference to context.
		No evidence of a logical chain of reasoning.
Level 2	4–6	Evidence of evaluation of alternative approaches.
		Some supporting evidence/reference to context.
		Evaluation is supported by a partially-developed chain of reasoning.
Level 3	7-8	Evaluation recognises different viewpoints and/or is critical of the
		evidence, leading to an informed judgement.
		Appropriate reference to evidence/context.
		Evaluation is supported by a logical chain of reasoning.

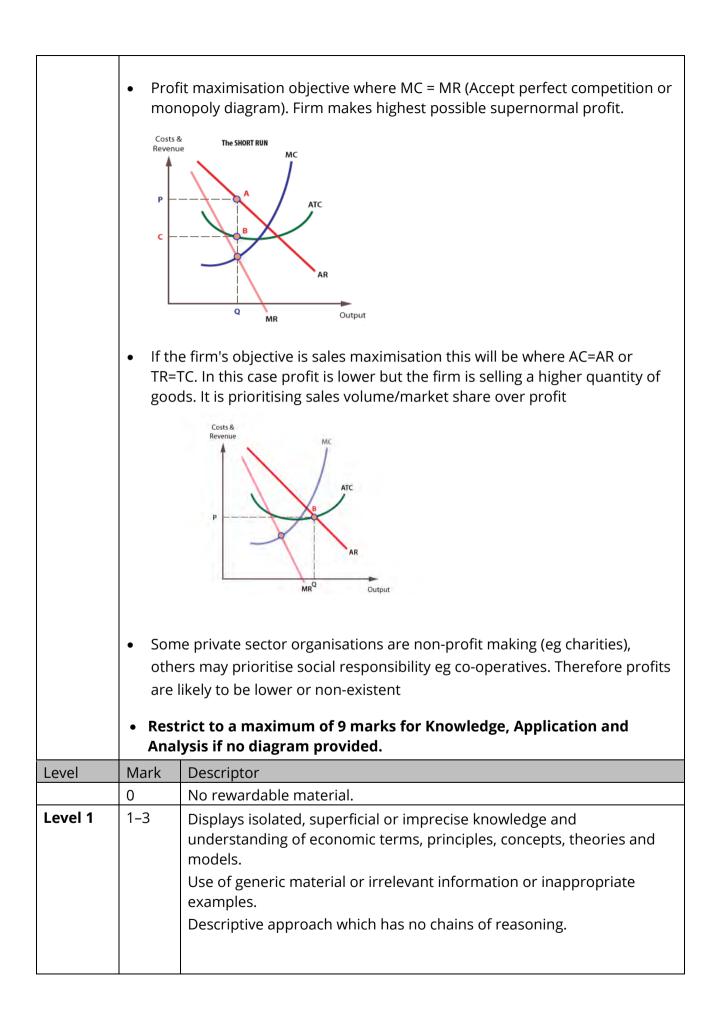
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9	 Indicative content guidance Answers must be credited by using the level descriptors (below) in line with the general marking guidance. The indicative content below exemplifies some of the points that candidates may make, but this does not imply that any of these must be included. Other relevant points must also be credited. Quantitative skills assessed: QS4: Construct and interpret a range of standard graphical forms. QS9: Interpret, apply and analyse information in written, graphical, tabular and numerical forms.
	 Knowledge, Application, Analysis (12 marks) - indicative content Conditions for perfect competition - large number of buyers & sellers, perfect information, no barriers to entry or exit, homogeneous products Conditions for monopolistic competition (MC) - as above, but differentiated products and few or no barriers Understanding of allocative, productive and dynamic efficiency - productive (lowest point of AC) allocative (p=MC) dynamic (technical) PERFECT COMPETITION Firms are price takers - hence perfectly elastic demand Use of diagram to show that market forces lead to downward pressure on price - Any supernormal profit in short-run is removed in long-run with new entrants Rightward shift in market supply curve, shift downwards in firms'
	AR=MR=D curve i.e. lower price from P to P _E Firm Industry P_{P_E} $D = AR = MR$ D



Level	Mark	Descriptor	
	0	No rewardable material.	
Level 1	1–3	Displays isolated, superficial or imprecise knowledge and understanding of economic terms, principles, concepts, theories and models. Use of generic material or irrelevant information or inappropriate examples. Descriptive approach which has no chains of reasoning.	
Level 2	4-6	Displays elements of knowledge and understanding of economic terms, principles, concepts, theories and models. Limited application of knowledge and understanding to economic problems in context. A narrow response or superficial, only two-stage chains of reasoning in terms of cause and/or consequence.	
Level 3	7-9	Demonstrates accurate knowledge and understanding of economic terms, principles, concepts, theories and models. Ability to apply knowledge and understanding to some elements of the question. Some evidence and contextual references are evident in the answer. Analysis is clear and coherent. Chains of reasoning in terms of cause and/or consequence are evident but they may not be developed fully or some stages are omitted.	
Level 4	10–12 Evaluation	Demonstrates accurate and precise knowledge and understanding of economic terms, principles, concepts, theories and models. Ability to link knowledge and understanding in context using appropriate examples which are fully integrated to address the broad elements of the question. Analysis is clear, coherent, relevant and focused. The answer demonstrates logical and multi-stage chains of reasoning in terms of cause and/or consequence. (8 marks) – indicative content	
	 Complete absence of dynamic efficiency under perfect competition (homogeneous products, no barriers) - so no incentive to innovate and carry out product development Under monopolistic competition possible dynamic efficiency at least in the short-run. Availability of super normal profit and some barriers because of branding/differentiation Entry of new firms into both types of market structure in the long-run means that both types of firm are likely to be x-efficient 		

Level	Mark	Descriptor
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Level 1	1–3	Identification of generic evaluative comments.
		No supporting evidence/reference to context.
		No evidence of a logical chain of reasoning.
Level 2	4-6	Evidence of evaluation of alternative approaches.
		Some supporting evidence/reference to context.
		Evaluation is supported by a partially-developed chain of reasoning.
Level 3	7–8	Evaluation recognises different viewpoints and/or is critical of the evidence, leading to an informed judgement.
		Appropriate reference to evidence/context.
		Evaluation is supported by a logical chain of reasoning.

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Other relevant points must also be credited.
QS4 : Construct and interpret a range of standard graphical forms.
QS9: Interpret, apply and analyse information in written, graphical, tabular and numerical forms.
Knowledge, Application and Analysis (12 marks) – indicative content
Range of business objectives include: • profit maximisation • sales maximisation • profit satisficing will impact on profits • social objectives • growth • If maximising revenue is the main objective, output is where MR=0 and TR is maximised. The firm in the diagram is making a supernormal profit (AR exceeds AC), but profit is less than at profit maximising output.



Level 2	4-6	Displays elements of knowledge and understanding of economic terms, principles, concepts, theories and models. Limited application of knowledge and understanding to economic problems in context. A narrow response or superficial, only two-stage chains of reasoning in terms of cause and/or consequence.
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	Evaluat	ion (8 marks) – indicative content
	a pro trans	public sector organisations which can be financed through tax revenues, ofit objective may be non-existent or less important eg health, education, sport, postal services re may be conflicting objectives in a large private sector organisation
	where there is a divorce of ownership and control. Eg shareholders want higher profits, managers want sales maximisation	
	- ma obje - cha sacri - nev emp - sho reve	ness objectives can change depending on circumstances croeconomic conditions (eg in a recession survival will be a prime ctive) anges within a market (eg more competitive conditions may involve ificing some profit in the short-run) w government legislation (eg tightening up on environmental laws may hasise social responsibility) ort-run & long-run distinction. Eg a business may seek to maximise nue in the short-run aiming to remove competitors. This may then ole to business to raise prices and hence profits in the long-run

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