

### **Cambridge International Examinations**

Cambridge International General Certificate of Secondary Education

BUSINESS STUDIES 0450/22

Paper 2 Case Study May/June 2017

MARK SCHEME
Maximum Mark: 80

### **Published**

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Question	Answer	Marks
1(a)	Identify two financial statements the directors will need to see before expanding CC. Explain why they will want to see each of these statements.	8
	Knowledge $[2 \times 1]$ – award one mark for each financial statement  Analysis $[2 \times 1]$ – award one mark for a relevant explanation for each financial statement  Application $[2 \times 2]$ – award two application marks for each financial statement	
	Award one mark for each relevant named financial statement (max 2) and one mark for explanation of why the directors will want to view these statements before expanding.	
	Examples might include:	
	<ul> <li>income statement/Profit and loss account – to assess profitability/availability of retained profit/ need for loan/ability to repay loan</li> <li>balance sheet/Statement of financial position – assess liquidity position/ assets for security against loan/assess value of assets that could be sold</li> <li>cash flow forecast/statement – shows cash position/ability to cover expenses of expansion/liquidity position/ability to repay loans</li> </ul>	
	Award a maximum of three additional marks for each explanation – 2 of which must be applied to this context – of the financial statement.	
	Indicative response:	
	Balance sheet (k) to see if the business will be able to borrow \$500 000 (app). The balance sheet will show the liabilities of the company and will show if the bank is likely to give CC a loan for the purchase of the new automated equipment (app). The directors will want to see if there are sufficient assets to be used as security for the loan (an).	
	Possible application marks:	
	Already operating in a niche market; high quality ingredients; chocolates/high quality chocolates/luxury chocolates; hand-made chocolates; factory; private limited company; set up 15 years ago in country X; labour-intensive production techniques; 100 production workers; on-the-job training for new workers; developing a new brand of chocolate bar; targeted at the mass market; purchase a new automated production line; output is expected to be high; borrow \$500 000.	
	There may be other examples in context that have not been included here.	

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Question			Answer	Marks
1(b)	its ingredien	ıts. Whi	ing three factors that affect CC when importing all of ch is the most important factor when deciding whether ts? Justify your answer.	12
	Relevant po	ints miç	ght include:	
	Exchange	rate	May fluctuate and this will affect the import prices of ingredients – affects costs – difficult to plan for – may result in having much higher costs than budget.  Exchange rate is already low – higher cost of imported ingredients – raise prices – lower sales - reduce profit. If exchange rate increased/high – lower cost of imported ingredients – lower prices – increase sales – increase profit.	
	Import ta	riffs	Increased cost of imported materials – need to raise prices of finished chocolates or reduce profit.  Note: Do not award fixed quantity i.e. gueta	
	Delivery t	time	Note: Do not award fixed quantity i.e. quota  Perishable ingredients – need for quick delivery – urgent orders may need quick delivery.  Delivery may be slow – may cause production delays – reduced sales/customer demand not fully met.  If delays in delivery – may need to buy locally produced ingredients – lower quality – lose reputation/lose brand image.	
			<b>Note:</b> Do not award if only about delivery time to the customer.	
	Knowledge/A	•	Evaluation – award up to 10 marks using the levels-based	
		Knowle	edge/Analysis/ Evaluation	
	Level 3	9–10 m	t 2 × Level 2 + narks for well justified conclusion of the most important and why it is more important than the other two factors.	
	Level 2	4–6 ma	arks for limited conclusion of the most important factor.  arks d discussion of each factor.	
	Level 1	1–3 ma		
			each L1 statement (max of 3 marks) e.g. A tariff will company pays for imported raw materials.	
	awarded for e fluctuations w appreciates t	each ad vill affec hen imp	anation can gain 4 marks and a further mark can be ditional L2 explanation (max 6 marks) e.g. Exchange rate the cost of imported ingredients. If the exchange rate ort prices will be lower and costs will be less or if the ciates then import costs will rise. (L2)	

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Question	Answer	Marks
	Level 3 – For L3 to be awarded there needs to be at least two L2 marks awarded and then a conclusion which justifies which is the most important factor.	
	Award up to 2 additional marks for relevant application.  Possible application marks:	
	chocolates/high quality chocolates/luxury chocolates; hand-made chocolates; country X already has a low exchange rate; located in country X; fillings made with luxury ingredients; batch production; 100 production workers; skilled workers in factory; employed at CC since it started; objective of expansion; developing a new brand of chocolate bar; targeted at the mass market; reduce variable costs by using lower quality ingredients; purchase a new automated production line; output is expected to be high; borrow \$500 000.	
	There may be other examples in context that have not been included here.	

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Question	Answer	Marks
2(a)	Identify and explain two reasons why on-the-job training is important for new employees at CC.	8
	Knowledge $[2 \times 1]$ – award one mark for each relevant reason Analysis $[2 \times 1]$ – award one mark for a relevant explanation for each reason	
	Application $[2 \times 2]$ – award two application marks for each reason	
	Award one mark for each relevant reason (max 2), such as:	
	<ul> <li>ensure they are correctly trained for CC methods – less likely to make mistakes/ maintains high quality chocolates</li> </ul>	
	<ul> <li>efficient at their jobs – increase output/know how to do the job correctly</li> <li>build relationships with existing employees – settle in quicker and happier in new job/easier to ask for help if unsure/more quickly effective in the new job</li> <li>new employees are quickly able to contribute to production – can produce chocolates while training so output higher</li> <li>easier and quicker to arrange - cheaper than off-the-job training</li> </ul>	
	less likely to have accidents if correctly trained- employees less likely to be absent from work through injury	
	<b>Note:</b> Do not award induction training or just a simple definition of off-the-job training	
	Award a maximum of three additional marks for each explanation – 2 of which must be applied to this context – of the reason	
	Indicative response: On-the-job training will ensure the new employees are trained correctly (k) in how to make the hand-made chocolates (app). As the chocolates are luxury products using expensive fillings then they must not be wasted (app). If trained correctly then the new employees will carry out their jobs effectively and chocolates will not be faulty and thrown away (an).	
	Possible application marks:	
	Chocolates/high quality chocolates/luxury chocolates; hand-made chocolates; private limited company; labour-intensive production techniques; batch production; 100 production workers; skilled workers in the factory; employed at CC since it started/for 15 years; objective of expansion; developing a new brand of chocolate bar; targeted at the mass market; purchase a new automated production line; output is expected to be high.	
	There may be other examples in context that have not been included here.	

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Question		Answer	Marks
2(b)	introduction will be mos	ow the following three stakeholders will be affected by the n of a new automated production line at CC. Which stakeholder t affected by this decision? Justify your answer.	12
	Kelevant po	Positively affected Negatively affected	
	Employee	<ul> <li>Increased output –         higher wages         Training provided –         increases skills of         workers – increased job         workers – increased job         line increased job         workers – increased job         line increased job</li></ul>	
	Shareholde	<ul> <li>Increased profit in long run</li> <li>Share price increased</li> </ul> <ul> <li>Reduced dividends in the short run</li> </ul>	
	Bank	<ul> <li>Expansion of business         <ul> <li>more likely to repay loans/overdrafts</li> </ul> </li> <li>May need additional loans</li> <li>Bank makes a profit from interest paid on the loan</li> <li>Investment may take time for increased revenue – delay in repaying loan</li> <li>If fails the bank loan may not be repaid – bank loses money</li> </ul>	
	Knowledge/	Analysis/Evaluation – award up to 10 marks using the levels-based le below.	
	K	nowledge/Analysis/ Evaluation	
	9 b Level 3	t least 2 × Level 2 +  -10 marks for well justified conclusion as to which stakeholder will e affected the most by the new automated production line and why ne others will be less affected.	
		—8 marks for some limited judgement shown in conclusion as to rhich stakeholder will be affected the most by the automated roduction line.	
	Level 2	–6 marks Detailed discussion of the positive and/or negative effects on each takeholder.	
	1 1 0 1 0 1 1	–3 marks Outline of the effects on each stakeholder.	
	Level 1 – 1 i made redun	mark for each L1 statement (max of 3 marks) e.g. Workers may be dant.	

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Question	Answer	Marks
	Level $2-1 \times L2$ explanation can gain 4 marks and a further mark can be awarded for each additional L2 explanation (max 6 marks) e.g. Workers may be made redundant as the production line may not require as many workers. Those workers who keep their jobs may benefit by receiving higher wages as they will now be more productive. (L2)	
	Level 3 – For L3 to be awarded there needs to be at least two L2 marks awarded and then a conclusion which justifies which stakeholder is affected the most.	
	Award up to 2 additional marks for relevant application.	
	Possible application marks:	
	Chocolates/high quality chocolates/luxury chocolates; hand-made chocolates; most workers been with CC since it started/for 15 years; private limited company; set up 15 years ago in country X; on-the-job training for new workers; objective of expansion; developing a new brand of chocolate bar; targeted at the mass market; reduce variable costs by using lower quality ingredients; output is expected to be high; borrow \$500 000.	
	There may be other examples in context that have not been included here.	

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Question		Answer	Marks
3(a)		n <u>one</u> advantage and <u>one</u> disadvantage to CC if it c limited company.	8
	Analysis [2 × 1]	<ul> <li>award one mark for each relevant advantage /disadvantage</li> <li>award one mark for a relevant explanation for each advantage/disadvantage</li> <li>award two application marks for each advantage</li> </ul>	
	Award one mark for	/disadvantage each relevant advantage/disadvantage (max 1 each) and for explaining why it is an advantage/disadvantage.	
	Answers are likely to	o include:	
	Advantage	<ul> <li>No restriction on who can buy shares/shares sold to the public</li> <li>Increased share capital issued to purchase fixed assets/increased capital raised</li> <li>Easier to obtain bank loan/attract suppliers/perceived as less risky and higher status</li> </ul>	
	Disadvantage	<ul> <li>Accounts published/less privacy</li> <li>Easier to be taken over/original owners lose control</li> <li>More legal formalities/expensive and time consuming to convert to plc. and issue shares to the public</li> <li>More regulations and controls over plc.</li> </ul>	
	Indicative response A public limited com to raise the addition cheaper way to rais need to be paid on of the automated pr	of three additional marks for each explanation – 2 of which his context - of the advantage/disadvantage.  It is pany can issue new shares to the public (k) this will allow it al \$500 000 needed for the expansion (app). This is a e this necessary capital for the expansion as interest will not the finance (an). As the finance can be used for expansion oduction line then the higher profit from the increased output uced dividends for the shareholders (app).	
		itional marks for relevant application.	
	Possible application	n marks:	
	private limited com objective of expan- the mass market; p	uality chocolates/luxury chocolates; hand-made chocolates; pany; set up 15 years ago in country X; batch production; sion; developing a new brand of chocolate bar; targeted at burchase a new automated production line; output is h; borrow \$500 000.	
	There may be other	er examples in context that have not been included here.	

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Question		Answer	Marks
3(b)	Draw on the variable cost Do you think for Fizz Bom	endix 2 and other information in the case. graph below the break-even output of Fizz Bomm if the t is reduced to \$0.60. this would be the best way for CC to gain the highest profit m? Justify your answer  nts might include:	12
	Lower variab cost to \$0.60	<ul> <li>New TC line correctly drawn on the graph (L2)</li> <li>B/E identified at 40 000 (L2) and 20 000 (L2)</li> <li>Profit increases from \$12 000 (L2) to \$32 000 (L2)</li> <li>Cheaper ingredients – may be poorer quality chocolates – fewer sales than predicted</li> </ul>	
	mark scheme		
		Knowledge/Analysis/ Evaluation	
	Level 3	Must have 2 × L2 – correct TC line plotted onto the graph and/or break-even output(s) and/or profit(s) correctly.  9–10 marks for well justified conclusion as to the best way to	
		increase profit to choose compared to other ways.  7–8 marks for some limited judgement shown in conclusion as to the best way to increase profit.	
	Level 2	4–6 marks Correct new TC line drawn on the graph and/or correct breakeven output(s) identified, and/or profit(s) correctly calculated and/or Explanation of the effects of lower variable cost and/or alternative way to increase profit even if no correct answer on break – even graph.	
	Level 1	1–3 marks (No correct answer on break – even graph) Outline of effects of lowering variable cost and /or alternative way to increase profit such as increase price.	
		ark for each L1 statement (max of 3 marks) e.g. Lowering the will lead to higher profit.	
		L2 explanation can gain 4 marks and a further mark can be each additional L2 explanation (max 6 marks) e.g. The new breaks 20 000. (L2)	

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Question	Answer	Marks
	Level 3 – For L3 to be awarded there needs to be at least two L2 marks awarded and then a recommendation which justifies which is the best way to choose to increase profit.	
	Award up to 2 additional marks for relevant application in the conclusion.  Possible application marks:	
	high quality chocolates/luxury chocolates; hand-made chocolates; fillings made with luxury ingredients; sold to specialist sweet shops; objective of expansion; developing a new brand of chocolate bar; targeted at the mass market; reduce variable costs by using lower quality ingredients; purchase a new automated production line; output is expected to be high; borrow \$500 000.	
	There may be other examples in context that have not been included here.	

Question	Answer	Marks
4(a)	Fizz Bomm is in the development stage of the product life cycle. Identify and explain four other stages of Fizz Bomm's product life cycle	8
	Award one mark for <b>each correctly named stage</b> (max 4) plus one additional mark for development indicating the <b>characteristics of the stage</b> :	
	<ul> <li>Introduction – low sales because the chocolate bar is new/loss made due to high development costs/ new into the market</li> <li>Growth – sales start to rise rapidly/profits start to be made after development costs covered</li> <li>Maturity – sales increase more slowly/ increasing competition/profits at their highest as sales growth is high</li> <li>Saturation – sales remain high but stable/profits fall as sales are static and prices have been reduced</li> <li>Decline – sales fall as new chocolate bars become available/profits fall as sales fall</li> </ul>	
	Note: Do not reward 'Extension of the product life cycle' as a stage.	
	Indicative response: Introduction (1) as the new chocolate bar is to be launched onto the market and will have low sales to start with. (1)	

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Question		Answer	Marks
4(b)	outlined for	e suitability of the three elements of the marketing mix Fizz Bomm in Appendix 3. Recommend whether any of these ould be changed. Justify your answer.	12
	Relevant po	ints might include:	
	Price	<ul> <li>competitive market so penetration pricing will allow new chocolate bar to enter the market</li> <li>will get established in the market – build up customer loyalty</li> <li>longer term use competitive pricing as might be better in a competitive market</li> </ul>	
	Promotion	<ul> <li>if aimed at children – should be seen by target in children's magazines</li> <li>but coupon unlikely to be effective for children</li> <li>competitors advertise on TV</li> <li>TV more suitable for the mass market</li> </ul>	
	Place	<ul> <li>keep selling in specialist sweet shops but less appropriate for mass market so may not be successful</li> <li>competitors 'place' more suitable for mass market – CC less successful/fewer sales if do not change 'place'</li> </ul>	
	Knowledge/A mark scheme	analysis/Evaluation – award up to 10 marks using the levels-based below.	
		Knowledge/Analysis/ Evaluation	
	Level 3	At least 2 × Level 2 + 9–10 marks for well justified recommendation as to whether to change the elements of the marketing mix.  7–8 marks for some limited judgement shown in recommendation	
		as to whether to change the elements of the marketing mix.	
	Level 2	4–6 marks Detailed discussion of relevance of each element of the marketing mix.	
	Level 1	1–3 marks Outline of each element of the marketing mix	
	competitive n	nark for each L1 statement (max of 3 marks) e.g. As it is in a narket the pricing strategy should be penetration pricing when the te bar is launched.	

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Question	Answer	Marks
	Level $2-1 \times L2$ explanation can gain 4 marks and a further mark can be awarded for each additional L2 explanation (max 6 marks) e.g. As it is in a competitive market the pricing strategy should be penetration pricing when the new chocolate bar is launched. However, when the product moves to the growth stage of the life cycle then competitive pricing should be used to maintain brand loyalty and to stay competitive with all the other brands of chocolate bar. (L2 plus application for referring to the new chocolate bar)	
	Level 3 – For L3 to be awarded there needs to be at least two L2 marks awarded and then a conclusion which justifies whether to change the elements of the marketing mix.	
	Award up to 2 additional marks for relevant application.	
	Possible application marks:	
	penetration pricing; advertising in children's magazines; discount coupons in the magazines; competitors only advertise on TV; distribute through speciality sweet (candy) shops; competitors distribute through wholesalers and supermarkets; chocolates/high quality chocolates/luxury chocolates; handmade chocolates; developing a new brand of chocolate bar; lots of competitors in the mass market; output is expected to be high. There may be other examples in context that have not been included here.	

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