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**BUSINESS STUDIES**

**0450/21**

Paper 2 Case Study

**October/November 2019**

MARK SCHEME

Maximum Mark: 80

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**Published**

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge International will not enter into discussions about these mark schemes.

Cambridge International is publishing the mark schemes for the October/November 2019 series for most Cambridge IGCSE™, Cambridge International A and AS Level components and some Cambridge O Level components.

**Generic Marking Principles**

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptors for a question. Each question paper and mark scheme will also comply with these marking principles.

**GENERIC MARKING PRINCIPLE 1:**

Marks must be awarded in line with:

- the specific content of the mark scheme or the generic level descriptors for the question
- the specific skills defined in the mark scheme or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.

**GENERIC MARKING PRINCIPLE 2:**

Marks awarded are always **whole marks** (not half marks, or other fractions).

**GENERIC MARKING PRINCIPLE 3:**

Marks must be awarded **positively**:

- marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit is given for valid answers which go beyond the scope of the syllabus and mark scheme, referring to your Team Leader as appropriate
- marks are awarded when candidates clearly demonstrate what they know and can do
- marks are not deducted for errors
- marks are not deducted for omissions
- answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

**GENERIC MARKING PRINCIPLE 4:**

Rules must be applied consistently e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

**GENERIC MARKING PRINCIPLE 5:**

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

**GENERIC MARKING PRINCIPLE 6:**

Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

Question	Answer	Marks
1(a)	<p><b>Identify and explain one benefit and one cost to MF of developing the new product.</b></p> <p>Knowledge [2 × 1] – award one mark for each relevant benefit/cost            Analysis [2 × 1] – award one mark for a relevant explanation for each benefit/cost            Application [2 × 2] – award two application marks for each benefit/cost</p> <p>Answers are likely to include:            Benefit:</p> <ul style="list-style-type: none"> <li>• Provides a USP</li> <li>• Allows diversification/spreads risk</li> <li>• Allows the business to expand into new markets/attracts new customers/accommodates changing customer needs</li> <li>• Allows the business to expand into existing markets/increases market share/improved competitive advantage</li> <li>• Increase revenue/increased sales</li> </ul> <p>Cost:</p> <ul style="list-style-type: none"> <li>• Costs of carrying out market research/product trials</li> <li>• Increased production costs – new equipment/training/recruitment costs/high cost of raw materials/high cost of waste removal</li> <li>• Increased marketing costs – to build customer awareness</li> <li>• If target market wrong, the company reputation may be damaged</li> </ul> <p>Indicative response:            Provides a USP (1) if there are no other sugar-free ice creams in the market (ap). This will allow MF to increase sales revenue of the ice cream (1). This is a new market and MF is taking advantage of the trends for healthier foods (ap).</p> <p>Possible application marks:            Sugar free ice-cream; MF has a large market share of the food markets; large variety of food products; objectives are growth and increased market share; new automated production line required; new skilled workers need recruiting; existing workers need to be retrained.</p> <p>There may be other examples in context that have not been included here.</p>	8

Question	Answer	Marks														
1(b)	<p><b>Consider how the following three elements of the marketing mix could help to make the new product successful. Which do you think is the most important element for the success of the new product? Justify your answer.</b></p> <p>Relevant points might include:</p> <table border="1" data-bbox="304 483 1331 960"> <tbody> <tr> <td data-bbox="304 483 525 584"> <ul style="list-style-type: none"> <li>Price</li> </ul> </td> <td data-bbox="525 483 1331 584"> <ul style="list-style-type: none"> <li>Penetration pricing into existing dessert market</li> <li>Cost-plus pricing as need to recoup development costs</li> </ul> </td> </tr> <tr> <td data-bbox="304 584 525 757"> <ul style="list-style-type: none"> <li>Place</li> </ul> </td> <td data-bbox="525 584 1331 757"> <ul style="list-style-type: none"> <li>Distribute through wholesalers or large supermarkets to reach a mass market</li> <li>Distribute through gyms or health food outlets to reach health conscious market</li> </ul> </td> </tr> <tr> <td data-bbox="304 757 525 960"> <ul style="list-style-type: none"> <li>Promotion</li> </ul> </td> <td data-bbox="525 757 1331 960"> <ul style="list-style-type: none"> <li>Advertise in health and fitness magazines for the health conscious consumers</li> <li>TV advertising as aimed at large market</li> <li>Free samples to ensure potential consumers try the new dessert</li> </ul> </td> </tr> </tbody> </table> <p>Knowledge/Analysis/Evaluation – award up to 10 marks using the levels-based mark scheme below.</p> <table border="1" data-bbox="304 1095 1331 1827"> <thead> <tr> <th data-bbox="304 1095 456 1160"></th> <th data-bbox="456 1095 1331 1160">Knowledge/Analysis/ Evaluation</th> </tr> </thead> <tbody> <tr> <td data-bbox="304 1160 456 1431">Level 3</td> <td data-bbox="456 1160 1331 1431">           At least 2 × Level 2 +            9–10 mark for well justified conclusion of which element of the marketing mix will contribute the most to the success of the new product and why the other elements will contribute less.            7–8 mark for some limited judgement shown in conclusion of which element of the marketing mix will contribute the most to the success of the new product         </td> </tr> <tr> <td data-bbox="304 1431 456 1630">Level 2</td> <td data-bbox="456 1431 1331 1630">           4–6 marks            Detailed discussion of how each element of the marketing mix can contribute to the success of the new product.            A clear strategy needs to be explained, e.g. pricing method named and explained as to why it would be effective         </td> </tr> <tr> <td data-bbox="304 1630 456 1827">Level 1</td> <td data-bbox="456 1630 1331 1827">           1–3 marks            Outline of how each element of the marketing mix can contribute to the success of the new product.            Simple statement made, e.g. reduce the price to gain more customers         </td> </tr> </tbody> </table>	<ul style="list-style-type: none"> <li>Price</li> </ul>	<ul style="list-style-type: none"> <li>Penetration pricing into existing dessert market</li> <li>Cost-plus pricing as need to recoup development costs</li> </ul>	<ul style="list-style-type: none"> <li>Place</li> </ul>	<ul style="list-style-type: none"> <li>Distribute through wholesalers or large supermarkets to reach a mass market</li> <li>Distribute through gyms or health food outlets to reach health conscious market</li> </ul>	<ul style="list-style-type: none"> <li>Promotion</li> </ul>	<ul style="list-style-type: none"> <li>Advertise in health and fitness magazines for the health conscious consumers</li> <li>TV advertising as aimed at large market</li> <li>Free samples to ensure potential consumers try the new dessert</li> </ul>		Knowledge/Analysis/ Evaluation	Level 3	At least 2 × Level 2 + 9–10 mark for well justified conclusion of which element of the marketing mix will contribute the most to the success of the new product and why the other elements will contribute less. 7–8 mark for some limited judgement shown in conclusion of which element of the marketing mix will contribute the most to the success of the new product	Level 2	4–6 marks Detailed discussion of how each element of the marketing mix can contribute to the success of the new product. A clear strategy needs to be explained, e.g. pricing method named and explained as to why it would be effective	Level 1	1–3 marks Outline of how each element of the marketing mix can contribute to the success of the new product. Simple statement made, e.g. reduce the price to gain more customers	12
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1(b)	<p>Level 1 – 1 mark for each L1 statement (max of 3 marks), e.g. place can be through wholesalers and supermarkets as they can sell a lot of the products to this large market.</p> <p>Level 2 – 1 × L2 explanation can gain 4 marks and a further mark can be awarded for each additional L2 explanation (max 6 marks), e.g. Place can be through wholesalers and supermarkets as they can sell a lot of the products to this large market. These outlets are where the most customers will buy desserts and so it will increase the chance of the new ice-cream being seen on the shelves and then purchased (L2 + application for referring to ice-cream in the answer).</p> <p>Level 3 – For L3 to be awarded there needs to be at least two L2 marks awarded and then a justified conclusion of which element of the marketing mix will contribute most to the success of the new product.</p> <p><b>Award up to 2 additional marks for relevant application.</b></p> <p>Possible application marks: Sugar free ice-cream; MF has a large market share of the food markets; objectives are growth and increased market share; 10% of adults should not be eating sugary foods; 40% of adults are overweight; other food businesses are planning the introduction of low sugar food products; health conscious consumers.</p> <p>There may be other examples in context that have not been included here.</p>	

Question	Answer	Marks
2(a)	<p><b>Identify and explain how the following two stakeholder groups of MF will be affected by the production of this new product.</b></p> <p>Knowledge [2 × 1] – award one mark for how each stakeholder group is affected            Analysis [2 × 1] – award one mark for a relevant explanation of how each stakeholder group is affected            Application [2 × 2] – award two application marks for how each stakeholder group is affected</p> <p>Answers are likely to include:</p> <p><b>Employees</b></p> <ul style="list-style-type: none"> <li>• increased production – output per worker increase</li> <li>• increased job security – more skills acquired</li> <li>• new production methods used – workers may not like change</li> <li>• more training required – feel more motivated – gain more</li> <li>• job satisfaction – gain higher wages</li> </ul> <p><b>Customers</b></p> <ul style="list-style-type: none"> <li>• more choice of products/ help to reduce weight for some consumers</li> <li>• may not buy the new product – as customers are unhappy with the effect on the environment</li> <li>• better meets the needs of some customers – makes customers feel more loyal to the company</li> <li>• will have to pay a higher price if customers want the new ice cream</li> </ul> <p>Indicative response:            Increased production (1) as the new sugar free ice cream will be produced (ap). This will require further training for employees as the new equipment is different to the original equipment in the factory (1) and the new automated equipment that has been installed to produce the new ice cream will require quite different skills (ap).</p> <p>Possible application marks:            Sugar free ice-cream; MF has a large market share of the food markets; objectives are growth and increased market share; new automated production line required; new skilled workers need recruiting; increasing trends of people being overweight in country X.</p> <p>There may be other examples in context that have not been included here.</p>	8

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2(b)	<p data-bbox="304 248 1318 349"><b>Consider how each of the following might use MF's financial statements as shown in Appendix 1. Which user would find the information most helpful? Justify your answer.</b></p> <p data-bbox="304 383 735 416"><b>Relevant points might include:</b></p> <table border="1" data-bbox="304 450 1331 1061"> <tbody> <tr> <td data-bbox="304 450 525 618">Government</td> <td data-bbox="525 450 1331 618"> <ul style="list-style-type: none"> <li>• Helps to see/calculate the amount of tax due</li> <li>• Increased profitability means higher tax revenue</li> <li>• May need to support failing business with grant or subsidy</li> </ul> </td> </tr> <tr> <td data-bbox="304 618 525 860">Bank</td> <td data-bbox="525 618 1331 860"> <ul style="list-style-type: none"> <li>• Helps establishes if MF can repay any outstanding loans – or if any further loans might be required – shows liquidity of MF – shows profitability of MF – can be used to assess risk to the bank from loans or overdraft</li> <li>• Improved liquidity is good as more likely to repay debts</li> </ul> </td> </tr> <tr> <td data-bbox="304 860 525 1061">Shareholders</td> <td data-bbox="525 860 1331 1061"> <ul style="list-style-type: none"> <li>• See whether dividends are likely to be paid – judge likely direction of share price – consider whether further investment should be made</li> <li>• Increased profitability should lead to increased dividends</li> </ul> </td> </tr> </tbody> </table>	Government	<ul style="list-style-type: none"> <li>• Helps to see/calculate the amount of tax due</li> <li>• Increased profitability means higher tax revenue</li> <li>• May need to support failing business with grant or subsidy</li> </ul>	Bank	<ul style="list-style-type: none"> <li>• Helps establishes if MF can repay any outstanding loans – or if any further loans might be required – shows liquidity of MF – shows profitability of MF – can be used to assess risk to the bank from loans or overdraft</li> <li>• Improved liquidity is good as more likely to repay debts</li> </ul>	Shareholders	<ul style="list-style-type: none"> <li>• See whether dividends are likely to be paid – judge likely direction of share price – consider whether further investment should be made</li> <li>• Increased profitability should lead to increased dividends</li> </ul>	12
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Question	Answer	Marks
3(a)	<p><b>Identify and explain how the following four departments of MF are likely to be affected by the development of its new product.</b></p> <p>Award one mark for an explanation of a likely way each department will be affected (max 4)</p> <p>Award one mark for applying an explanation <b>in context</b> of how each department will be affected (max 4)</p> <p>Answers are likely to include:</p> <ul style="list-style-type: none"> <li>• Marketing department will have increased workload from carrying out market research/promoting the new product</li> <li>• HR will need to recruit additional workers/training requirements</li> <li>• Operations will need new automated equipment – to produce the new ice-cream</li> <li>• Finance will need to raise the funds necessary for the investment in the new equipment – and working capital for the purchase of new ingredients/produce financial statements, e.g. income statement</li> </ul> <p>Indicative response: The Marketing department will have an increased workload from carrying out market research (1). This is because the sugar-free ice cream is new and MF will not know if consumers are interested in buying it (1).</p> <p>Possible application marks: Sugar free ice-cream; MF has a large market share of the food markets; objectives are growth and increased market share; new automated production line required; new skilled workers need recruiting; waste produced causes pollution if thrown into local landfill; increasing trends of people being overweight in country X.</p> <p>There may be other examples in context that have not been included here.</p>	8

Question	Answer	Marks									
3(b)	<p><b>Using the information provided in Appendix 3, consider the following two options for MF's new product. Recommend which option MF should choose to ensure the highest profit for the new product. Justify your answer.</b></p> <p><b>Relevant points might include:</b></p> <table border="1" data-bbox="304 483 1331 1451"> <thead> <tr> <th data-bbox="304 483 647 548"></th> <th data-bbox="647 483 991 548">Level 1</th> <th data-bbox="991 483 1331 548">Level 2</th> </tr> </thead> <tbody> <tr> <td data-bbox="304 548 647 1016">Option 1 –raise price from \$5.00 to \$7.50</td> <td data-bbox="647 548 991 1016">           May put off potential customers/demand may fall            Revenue at \$5 for 5000 units = \$25 000            Fixed costs = \$10 000            Total cost at 2000 units of output = \$15 000            Higher price will give impression of higher quality product            May increase profit         </td> <td data-bbox="991 548 1331 1016">           B/E identified at 4000 and now fallen to 2000            Profit is \$15 000 at maximum capacity (or profit at alternative output)            Margin of safety increases by 2000            Increased price leads to increased gross profit per unit however, revenue might not increase if sales fall         </td> </tr> <tr> <td data-bbox="304 1016 647 1451">Option 2 – lower VC fall from \$2.50 to \$2.00</td> <td data-bbox="647 1016 991 1451">           May be lower quality product            Found cheaper raw materials/found cheaper ways to dispose of waste            Total cost will be lower            Fixed costs remain at \$10 000            Total cost at 3334 units of output = \$16 668 (or \$16 500)         </td> <td data-bbox="991 1016 1331 1451">           B/E identified at 4000 and now 3334 (accept 3200 up to 3500)            Profit is \$5000 at maximum capacity (or profit at alternative output)            Margin of safety increases by 666 (accept OFR)         </td> </tr> </tbody> </table>		Level 1	Level 2	Option 1 –raise price from \$5.00 to \$7.50	May put off potential customers/demand may fall Revenue at \$5 for 5000 units = \$25 000 Fixed costs = \$10 000 Total cost at 2000 units of output = \$15 000 Higher price will give impression of higher quality product May increase profit	B/E identified at 4000 and now fallen to 2000 Profit is \$15 000 at maximum capacity (or profit at alternative output) Margin of safety increases by 2000 Increased price leads to increased gross profit per unit however, revenue might not increase if sales fall	Option 2 – lower VC fall from \$2.50 to \$2.00	May be lower quality product Found cheaper raw materials/found cheaper ways to dispose of waste Total cost will be lower Fixed costs remain at \$10 000 Total cost at 3334 units of output = \$16 668 (or \$16 500)	B/E identified at 4000 and now 3334 (accept 3200 up to 3500) Profit is \$5000 at maximum capacity (or profit at alternative output) Margin of safety increases by 666 (accept OFR)	12
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Question	Answer	Marks
4(a)(i)	<p><b>Identify and explain two differences between MF and unincorporated businesses:</b></p> <p>Award one mark for each difference (2 max) plus one additional mark for explaining why it is a difference in context.</p> <p>Answers are likely to include:</p> <ul style="list-style-type: none"> <li>• MF has limited liability</li> <li>• There is continuity with MF</li> <li>• MF has a separate legal identity</li> <li>• MF is able to sell shares</li> </ul> <p>Note: Do not accept MF is an incorporated business</p> <p>Indicative response: MF has limited liability whereas an unincorporated business has unlimited liability (1). This protects the shareholders of MF (1).</p> <p>Context is from recognising that MF is an incorporated business – shareholders; MF is a public limited company; MF is not a sole trader or partnership; MF competitors are partnership businesses</p>	<b>4</b>
4(a)(ii)	<p><b>Identify and explain two differences between MF and public sector organisations:</b></p> <p>Award one mark for each difference (2 max) plus one additional mark for explaining why it is a difference in context.</p> <p>Answers are likely to include:</p> <ul style="list-style-type: none"> <li>• MF is not owned by the government</li> <li>• Different objectives such as private sector aim to make profits whereas public sector aim to provide a service to the public/different pricing strategies</li> <li>• Investment from the shareholders whereas public sector investment by the government</li> </ul> <p>Note: Do not accept MF is an incorporated business</p> <p>Indicative response: MF has profit and increased market share as objectives whereas public sector organisations will have different objectives such as public provision of a service (1)</p> <p>Context is from recognising that MF is a private sector business – MF objective is to increase profit; MF objective is to increase market share; MF is in the private sector; MF may fund investment by selling shares</p>	<b>4</b>

Question	Answer	Marks												
4(b)	<p><b>Consider the possible external costs and external benefits resulting from MF's new product. Recommend whether the Government should encourage MF to produce this new product. Justify your answer.</b></p> <p><b>Relevant points might include:</b></p> <table border="1" data-bbox="304 450 1331 927"> <tbody> <tr> <td data-bbox="304 450 456 689">External costs</td> <td data-bbox="456 450 1331 689"> <ul style="list-style-type: none"> <li>• Waste thrown into the landfill causes pollution for local people – farmers lose some of their land – reduces locally produced food – increased spending on buying food</li> <li>• High cost to the government to clean up the waste – raise taxes or reduce spending elsewhere</li> <li>• Environmental damage when rainforest is cut down</li> </ul> </td> </tr> <tr> <td data-bbox="304 689 456 927">External benefits</td> <td data-bbox="456 689 1331 927"> <ul style="list-style-type: none"> <li>• Healthier population – employees have less time off work – more efficient – increased output in the economy</li> <li>• Government spending on health provision falls – can spend money elsewhere</li> <li>• Recruitment of new workers will reduce unemployment in the local area</li> </ul> </td> </tr> </tbody> </table> <p>Knowledge/Analysis/Evaluation – award up to 10 marks using the levels-based mark scheme below.</p> <table border="1" data-bbox="304 1061 1331 1630"> <thead> <tr> <th data-bbox="304 1061 456 1126"></th> <th data-bbox="456 1061 1331 1126">Knowledge/Analysis/ Evaluation</th> </tr> </thead> <tbody> <tr> <td data-bbox="304 1126 456 1429">Level 3</td> <td data-bbox="456 1126 1331 1429">           At least 2 × Level 2 +            9–10 marks for well justified recommendation as to whether or not the government should encourage the production of this new product.             7–8 marks for some limited judgement shown in recommendation as to whether or not the government should encourage the production of this new product.         </td> </tr> <tr> <td data-bbox="304 1429 456 1529">Level 2</td> <td data-bbox="456 1429 1331 1529">           4–6 marks            Detailed discussion of external costs and/or benefits.         </td> </tr> <tr> <td data-bbox="304 1529 456 1630">Level 1</td> <td data-bbox="456 1529 1331 1630">           1–3 marks            Outline of external costs and/or benefits.         </td> </tr> </tbody> </table>	External costs	<ul style="list-style-type: none"> <li>• Waste thrown into the landfill causes pollution for local people – farmers lose some of their land – reduces locally produced food – increased spending on buying food</li> <li>• High cost to the government to clean up the waste – raise taxes or reduce spending elsewhere</li> <li>• Environmental damage when rainforest is cut down</li> </ul>	External benefits	<ul style="list-style-type: none"> <li>• Healthier population – employees have less time off work – more efficient – increased output in the economy</li> <li>• Government spending on health provision falls – can spend money elsewhere</li> <li>• Recruitment of new workers will reduce unemployment in the local area</li> </ul>		Knowledge/Analysis/ Evaluation	Level 3	At least 2 × Level 2 + 9–10 marks for well justified recommendation as to whether or not the government should encourage the production of this new product.  7–8 marks for some limited judgement shown in recommendation as to whether or not the government should encourage the production of this new product.	Level 2	4–6 marks Detailed discussion of external costs and/or benefits.	Level 1	1–3 marks Outline of external costs and/or benefits.	4
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4(b)	<p>Level 1 – 1 mark for each L1 statement (max of 3 marks), e.g. waste thrown into the landfill causes pollution.</p> <p>Level 2 – 1 × L2 explanation can gain 4 marks and a further mark can be awarded for each additional L2 explanation (max 6 marks), e.g. waste thrown into the landfill causes pollution and the farmers will lose their land meaning less food will be produced locally. Local people will have to pay more for food and this will leave them with less income to spend on other goods and services, therefore lowering their standard of living (L2).</p> <p>Level 3 – For L3 to be awarded there needs to be at least two L2 marks awarded and then a recommendation as to whether or not the government should encourage the production of this new product.</p> <p><b>Award up to 2 additional marks for relevant application.</b></p> <p>Possible application marks: Sugar free ice-cream; waste produced causes pollution if thrown into the local landfill; farmers may lose their land; sugary foods cause health problems; increasing trends of people being overweight in country x; increased government costs to treat overweight people.</p> <p>There may be other examples in context that have not been included here.</p>	