



## Cambridge IGCSE™

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**BUSINESS STUDIES**

**0450/22**

Paper 2 Case Study

**March 2020**

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 March 2020 series for most Cambridge IGCSE™, Cambridge International A and AS Level components and some Cambridge O Level components.

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This document consists of **15** printed pages.

**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>Explain <u>four</u> reasons why a person may set up their own business.</b></p> <p>Award one mark for each relevant reason (maximum of four). Relevant reasons might include:</p> <ul style="list-style-type: none"> <li>• Made redundant – need to provide an income as lost job</li> <li>• To be own boss – independence from instructions from others/employer</li> <li>• Able to decide how to spend time – flexible working hours/choose when to take time off</li> <li>• To make a profit – as may receive a higher income than working for another business</li> <li>• Gap in the market identified/able to put own ideas into practice/can make use of personal skills and interests/be creative/ethical principles</li> <li>• To gain recognition and status – to become well known and respected</li> </ul> <p>Award a maximum of one additional mark for each explanation. For example: Redundancy means loss of job (1) so setting up a business replaces the income which was lost (1).</p>	8									
1(b)	<p><b>Explain the benefits to BW of employing part-time employees and full-time employees. Do you think Bob should continue to employ only part-time employees? Justify your answer.</b></p> <table border="1" data-bbox="316 1048 1313 1993"> <thead> <tr> <th data-bbox="316 1059 451 1124">Level</th> <th data-bbox="451 1059 1174 1124">Description</th> <th data-bbox="1174 1059 1313 1124">Marks</th> </tr> </thead> <tbody> <tr> <td data-bbox="316 1124 451 1559">3</td> <td data-bbox="451 1124 1174 1559"> <p>Sound application of knowledge and understanding of relevant business concepts using appropriate terminology.</p> <p>Detailed discussion of the <b>two</b> alternatives.</p> <p>Well-justified conclusion.</p> <p>Candidates discussing the two alternatives in detail, in context and with well-justified conclusion including why the alternative was rejected should be rewarded with the top marks in the band.</p> </td> <td data-bbox="1174 1124 1313 1559">9–12</td> </tr> <tr> <td data-bbox="316 1559 451 1993">2</td> <td data-bbox="451 1559 1174 1993"> <p>Sound application of knowledge and understanding of relevant business concepts using appropriate terminology.</p> <p>Detailed discussion of at least <b>one</b> alternative.</p> <p>Judgement with some justification/some evaluation of choice made.</p> <p>Candidates discussing the two alternatives in detail and applying it to the case should be rewarded with the top marks in the band.</p> </td> <td data-bbox="1174 1559 1313 1993">5–8</td> </tr> </tbody> </table>	Level	Description	Marks	3	<p>Sound application of knowledge and understanding of relevant business concepts using appropriate terminology.</p> <p>Detailed discussion of the <b>two</b> alternatives.</p> <p>Well-justified conclusion.</p> <p>Candidates discussing the two alternatives in detail, in context and with well-justified conclusion including why the alternative was rejected should be rewarded with the top marks in the band.</p>	9–12	2	<p>Sound application of knowledge and understanding of relevant business concepts using appropriate terminology.</p> <p>Detailed discussion of at least <b>one</b> alternative.</p> <p>Judgement with some justification/some evaluation of choice made.</p> <p>Candidates discussing the two alternatives in detail and applying it to the case should be rewarded with the top marks in the band.</p>	5–8	12
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1(b)	1	<p>Limited application of knowledge and understanding of relevant business concepts.</p> <p>Limited ability to discuss the alternatives with little/no explanation.</p> <p>Simple judgement with limited justification/limited evaluation of choice made.</p> <p>Candidates outlining the two alternatives in context should be rewarded with the top marks in the band.</p>	1–4						
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2(a)	<p><b>Explain <u>two</u> reasons why Bob used sampling when carrying out a questionnaire.</b></p> <p>Award one mark for each relevant reason (maximum of two reasons).</p> <p>Relevant reasons might include:</p> <ul style="list-style-type: none"> <li>To reduce the time taken to carry out the questionnaire – takes a lot of time to ask the whole population – sampling means reduced number of questionnaires have to be collated and analysed</li> <li>To reduce the cost of carrying out the questionnaire – reduced number of questionnaires printed – reduced postage/time taken by staff to carry out questionnaire</li> <li>More accurate or relevant information – as potential customers can be targetted – so answers only relate to potential customers and results are not influenced by answers from people not interested in the service</li> </ul> <p>Award a maximum of three additional marks for each explanation – <b>one of which must be applied to this context</b> – of the reasons for using sampling when carrying out a questionnaire.</p> <p>For example: To reduce costs for the business (1) because if the whole population is asked about cleaning windows this will be very expensive (App) therefore choosing a small number of people will be less expensive (1). This is important for a small business which will have other costs to pay (1).</p> <p><b>Application</b> could include: window cleaning business; window washing service; busy home owners; increasing incomes for potential customers; only has a few regular customers at the moment; need to decide the best ways to promote the business; confirm there is a high demand for these services.</p>	8

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2(b)	<p><b>Explain the following <u>three</u> methods of promotion BW could use. Which method should Bob use? Justify your answer.</b></p> <ul style="list-style-type: none"> <li>• <b>Leaflets</b></li> <li>• <b>Advertise in local newspaper</b></li> <li>• <b>Social media</b></li> </ul> <table border="1" data-bbox="316 479 1313 1883"> <thead> <tr> <th data-bbox="316 479 451 544">Level</th> <th data-bbox="451 479 1174 544">Description</th> <th data-bbox="1174 479 1313 544">Marks</th> </tr> </thead> <tbody> <tr> <td data-bbox="316 544 451 981">3</td> <td data-bbox="451 544 1174 981"> <p>Sound application of knowledge and understanding of relevant business concepts using appropriate terminology.</p> <p>Detailed discussion of at least <b>two</b> methods.</p> <p>Well-justified recommendation.</p> <p>Candidates discussing the three methods in detail, in context and with well-justified recommendation including why the alternative methods were rejected should be rewarded with the top marks in the band.</p> </td> <td data-bbox="1174 544 1313 981">9–12</td> </tr> <tr> <td data-bbox="316 981 451 1417">2</td> <td data-bbox="451 981 1174 1417"> <p>Sound application of knowledge and understanding of relevant business concepts using appropriate terminology.</p> <p>Detailed discussion of at least <b>one</b> method.</p> <p>Judgement with some justification/some evaluation of choice made.</p> <p>Candidates discussing two methods or more in detail and applying it to the case should be rewarded with the top marks in the band.</p> </td> <td data-bbox="1174 981 1313 1417">5–8</td> </tr> <tr> <td data-bbox="316 1417 451 1821">1</td> <td data-bbox="451 1417 1174 1821"> <p>Limited application of knowledge and understanding of relevant business concepts.</p> <p>Limited ability to discuss the methods with little/no explanation.</p> <p>Simple judgement with limited justification/limited evaluation of choice made.</p> <p>Candidates outlining the three methods in context should be rewarded with the top marks in the band.</p> </td> <td data-bbox="1174 1417 1313 1821">1–4</td> </tr> <tr> <td data-bbox="316 1821 451 1883">0</td> <td data-bbox="451 1821 1174 1883">No Creditable Response</td> <td data-bbox="1174 1821 1313 1883">0</td> </tr> </tbody> </table>	Level	Description	Marks	3	<p>Sound application of knowledge and understanding of relevant business concepts using appropriate terminology.</p> <p>Detailed discussion of at least <b>two</b> methods.</p> <p>Well-justified recommendation.</p> <p>Candidates discussing the three methods in detail, in context and with well-justified recommendation including why the alternative methods were rejected should be rewarded with the top marks in the band.</p>	9–12	2	<p>Sound application of knowledge and understanding of relevant business concepts using appropriate terminology.</p> <p>Detailed discussion of at least <b>one</b> method.</p> <p>Judgement with some justification/some evaluation of choice made.</p> <p>Candidates discussing two methods or more in detail and applying it to the case should be rewarded with the top marks in the band.</p>	5–8	1	<p>Limited application of knowledge and understanding of relevant business concepts.</p> <p>Limited ability to discuss the methods with little/no explanation.</p> <p>Simple judgement with limited justification/limited evaluation of choice made.</p> <p>Candidates outlining the three methods in context should be rewarded with the top marks in the band.</p>	1–4	0	No Creditable Response	0	12
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Question	Answer		Marks
2(b)	Social Media	<ul style="list-style-type: none"> <li>• Can be free with no cost – unless paid for advertising – seen by many younger consumers although may not be <b>home owners</b></li> <li>• Reputation of the <b>cleaning business</b> helps encourage new customers – spread quickly as easier to share</li> <li>• Allows video and audio to be added – makes the advertisement more attractive – may be more likely to persuade customers to have their <b>windows cleaned</b></li> <li>• Advertising can be carried out across the local area and not national area – so more targeted on potential customers</li> <li>• However, limited number of family and friends of the <b>small number of current regular customers</b> – restricting sales</li> <li>• Customers may not trust posts on social media – may think they are fake</li> </ul>	
	Recommendation	<p>Justification might include:</p> <ul style="list-style-type: none"> <li>• <b>As the business is new</b> then it will need to keep marketing costs low and therefore leaflets might be the best method to use as they are low cost. They can be put through the doors of prospective customers and may be more effective in directly targeting these customers. These customers may not read local newspapers and social media may not reach them.</li> <li>• Advertising in local newspapers is likely to reach the <b>target market in the local area as the business is a service and is only aimed at the local population</b>. Social media may be less effective as it will reach a wide range of people who may not all live locally to BW.</li> <li>• Social media is the cheapest of the three methods and can easily be seen by many <b>home owners</b>. This will be especially effective if regular customers put favourable posts about <b>BW cleaning services</b>. This will not need BW to do anything or spend money printing leaflets or paying for advertising.</li> </ul>	



Question	Answer	Marks
3(a)	<p data-bbox="316 241 1171 280"><b>Explain <u>two</u> reasons why working capital is important to BW.</b></p> <p data-bbox="316 309 1110 347">Award one mark for each relevant reason (maximum of two).</p> <p data-bbox="316 376 740 414">Relevant reasons might include:</p> <ul data-bbox="316 414 1310 757" style="list-style-type: none"> <li data-bbox="316 414 1310 517">• Needed to pay for day-to-day expenses – if lack of working capital then may not be able to pay wages – not able to supply services as workers will not work if not paid</li> <li data-bbox="316 517 1310 620">• Not able to buy supplies of cleaning materials – not able to satisfy customer needs – gain poor reputation with customers as being unreliable</li> <li data-bbox="316 620 1310 685">• So the business does not lack liquidity – to avoid cash flow problems – so does not become insolvent/cease trading/not survive</li> <li data-bbox="316 685 1310 757">• Holding too high a level of inventories – not good use of cash if working capital too high – other opportunities to gain profit are missed</li> </ul> <p data-bbox="316 786 1294 889">Award a maximum of three additional marks for each explanation – <b>one of which must be applied to this context</b> – of the reasons why working capital is important to BW.</p> <p data-bbox="316 918 491 956">For example:</p> <p data-bbox="316 985 1302 1126">Needed to pay day-to-day expenses (1) as BW will need to buy cleaning materials to carry out the services (App). If there is insufficient working capital then it will be difficult for BW to continue trading (1) because without wages paid cleaning materials available BW cannot continue operating (1).</p> <p data-bbox="316 1155 1315 1296"><b>Application</b> could include: window cleaning business; window washing service; cleaning materials; busy home owners; only has a few regular customers at the moment; wages \$300 per month; lease van at cost of \$150 per month; new business.</p>	8

Question	Answer		Marks
3(b)	<p>Consider the <b>three</b> main styles of leadership Bob could use in his business. Which leadership style do you think he should use? Justify your answer.</p>		12
Level	Description	Marks	
3	<p>Sound application of knowledge and understanding of relevant business concepts using appropriate terminology.</p> <p>Detailed discussion of <b>two</b> or more leadership styles.</p> <p>Well-justified recommendation.</p> <p>Candidates discussing the three leadership styles in detail, in context and with well-justified recommendation including why the alternative styles were rejected should be rewarded with the top marks in the band.</p>	9–12	
2	<p>Sound application of knowledge and understanding of relevant business concepts using appropriate terminology.</p> <p>Detailed discussion of at least <b>one</b> leadership style.</p> <p>Judgement with some justification/some evaluation of choice made.</p> <p>Candidates discussing two or more leadership styles in detail and applying it to the case should be rewarded with the top marks in the band.</p>	5–8	
1	<p>Limited application of knowledge and understanding of relevant business concepts. Limited ability to discuss the leadership styles with little/no explanation.</p> <p>Simple judgement with limited justification/limited evaluation of choice made.</p> <p>Candidates outlining the three leadership styles in context should be rewarded with the top marks in the band.</p>	1–4	
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4(a)(i)	<p><b>Calculate the break-even level of output for BW using the information in Appendix 2.</b></p> <p>Two marks for correct calculation. One mark for correct method/formula but wrong answer.</p> <p>Break-even output = Fixed costs ÷ Price – Variable cost per unit (1)  <math>\\$1250 \div (\\$11 - \\$1)(1) = 125</math> (1)</p> <p><b>Note: If answer is only 125 with no working then award two marks.</b></p>	<b>2</b>
4(a)(ii)	<p><b>Calculate the margin of safety for BW using the information in Appendix 2.</b></p> <p>Two marks for correct calculation. One mark for correct method but wrong answer. OFR applies.</p> <p>Margin of safety = Actual output – break-even output (1)  <math>225 - 125</math> (1) = 100 (1)</p> <p><b>Note: If answer is only 100 with no working then award two marks.</b></p>	<b>2</b>

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4(a)(iii)	<p><b>Identify <u>four</u> ways break-even analysis can be useful to a business.</b></p> <p>Award one mark for each way (maximum of four)</p> <ul style="list-style-type: none"> <li>• Predicts how many sales the business needs to make to break-even</li> <li>• Predicts how much sales could fall by and still make a profit</li> <li>• Shows potential profit/loss for the business at different levels of output</li> <li>• Shows possible effect of change in price on the break-even level of output/profit</li> <li>• Shows possible effect of change in costs on the break-even level of output/profit</li> <li>• May be useful to show to the bank manager to indicate a profit is predicted and therefore more likely to gain a bank loan</li> </ul>	<b>4</b>									
4(b)	<p><b>Consider the following <u>three</u> options for BW. Which option should Bob choose to improve BW's reputation? Justify your answer.</b></p> <p><b>Option 1: Use cleaning products that contain chemicals.</b>  <b>Option 2: Use bottles that can be refilled with cleaning products.</b>  <b>Option 3: Purchase a new window washing machine.</b></p> <table border="1" data-bbox="316 913 1313 1848"> <thead> <tr> <th data-bbox="316 913 451 978">Level</th> <th data-bbox="451 913 1173 978">Description</th> <th data-bbox="1173 913 1313 978">Marks</th> </tr> </thead> <tbody> <tr> <td data-bbox="316 978 451 1413" style="text-align: center;">3</td> <td data-bbox="451 978 1173 1413"> <p>Sound application of knowledge and understanding of relevant business concepts using appropriate terminology.</p> <p>Detailed discussion of <b>two</b> or more options.</p> <p>Well-justified recommendation.</p> <p>Candidates discussing all three options in detail, in context and with well-justified recommendation including why the alternative options were rejected should be rewarded with the top marks in the band.</p> </td> <td data-bbox="1173 978 1313 1413" style="text-align: center;">9–12</td> </tr> <tr> <td data-bbox="316 1413 451 1848" style="text-align: center;">2</td> <td data-bbox="451 1413 1173 1848"> <p>Sound application of knowledge and understanding of relevant business concepts using appropriate terminology.</p> <p>Detailed discussion of at least <b>one</b> option.</p> <p>Judgement with some justification/some evaluation of choice made.</p> <p>Candidates discussing two or more options in detail and applying it to the case should be rewarded with the top marks in the band.</p> </td> <td data-bbox="1173 1413 1313 1848" style="text-align: center;">5–8</td> </tr> </tbody> </table>	Level	Description	Marks	3	<p>Sound application of knowledge and understanding of relevant business concepts using appropriate terminology.</p> <p>Detailed discussion of <b>two</b> or more options.</p> <p>Well-justified recommendation.</p> <p>Candidates discussing all three options in detail, in context and with well-justified recommendation including why the alternative options were rejected should be rewarded with the top marks in the band.</p>	9–12	2	<p>Sound application of knowledge and understanding of relevant business concepts using appropriate terminology.</p> <p>Detailed discussion of at least <b>one</b> option.</p> <p>Judgement with some justification/some evaluation of choice made.</p> <p>Candidates discussing two or more options in detail and applying it to the case should be rewarded with the top marks in the band.</p>	5–8	<b>12</b>
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4(b)	1	<p>Limited application of knowledge and understanding of relevant business concepts.</p> <p>Limited ability to discuss each option with little/no explanation.</p> <p>Simple judgement with limited justification/limited evaluation of choice made.</p> <p>Candidates outlining all three options in context should be rewarded with the top marks in the band.</p>	1–4
	0	No Creditable Response	0
Relevant points might include:			
<p>Option 1</p> <p>Use cleaning products that contain chemicals</p>		<ul style="list-style-type: none"> <li>• Faster to <b>clean windows</b> – more efficient/improved customer satisfaction</li> <li>• <b>More efficient by 50 per cent</b> if using these chemicals so more windows washed per hour – possibly increasing profit</li> <li>• However, bad reputation from using chemicals as not environmentally friendly and <b>pressure groups</b> may campaign against them – although legal at the moment, the law may change in the future so may have to change later anyway</li> </ul>	
<p>Option 2</p> <p>Use bottles that can be refilled with cleaning products</p>		<ul style="list-style-type: none"> <li>• Slightly higher transport cost of taking the containers to be refilled as would need more than one – but may be the cleaning products are cheaper if use own bottle</li> <li>• Good reputation from being ethical as previously they may have used <b>plastic bottles</b> which were not environmentally friendly</li> <li>• Time taken by employees to get containers refilled – reduces efficiency</li> <li>• Cost to buy bottles may increase costs initially/short run – but lower costs in the long run as they do not need to keep being replaced</li> </ul>	
<p>Option 3</p> <p>Purchase a new window washing machine</p>		<ul style="list-style-type: none"> <li>• High cost of purchase – \$1000 – difficult to raise finance as a <b>new business</b></li> <li>• Ethical and may encourage more customers in the local area with <b>increasing income</b> to use BW</li> <li>• Reduces the amount of water required to <b>clean windows</b> – may save money</li> <li>• Improved reputation with the local community – as they may benefit from less wastage of water – <b>as the machine recycles the water</b></li> </ul>	

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4(b)	Recommendation	Justification may include: <ul style="list-style-type: none"> <li>• Choose Option 1 as although costs may be slightly higher the increased efficiency and <b>cleaning more windows per hour</b> increases reputation for a fast service. Customers may not know about the new machine or bottles being refilled and therefore this may not improve BW's reputation.</li> <li>• Choose Option 2 as <b>plastic bottles would not need to go to waste</b> and this can be a USP in advertising if other window washing businesses do not use these, hence improving BW's reputation. It is also a lot cheaper than <b>paying \$1000</b> for a new machine.</li> <li>• Choose Option 3 as it may be better in the long term as water is important and BW will not be wasting it. It also means that BW can <b>wash windows</b> without having to gain water from the house if the owners are out. This may increase efficiency and improve the reputation for being careful with the scarce resource of water. BW's reputation will not be enhanced as much if it refills bottles, as this may not be noticed by customers and they may not be aware of the chemicals being used.</li> </ul>	