

Level 3 Cambridge Technicals in Business 05834/05835/05836/05837/05878

Unit 3: Business decisions

Sample Assessment Material

Date - Morning/Afternoon

Time Allowed: 1 hour 30 minutes

You must have:

• Clean copy of the case study

You may use:

A calculator



First Name				l	₋ast Nai	me			
Centre Number				Car Nur	ndidate nber				
Date of Birth									

INSTRUCTIONS

- Use black ink.
- Complete the boxes above with your name, centre number and candidate number. Please write clearly and in capital letters.
- Answer all the questions.
- Write your answer to each question in the space provided. Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- Do **not** write in the bar codes.

INFORMATION

- The total mark for this paper is **60**.
- The marks for each question or part question are shown in brackets [].
- This document consists of 16 pages.

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Ofqual Reference Number: T/507/8150

Answer all questions.

1 Eric is concerned about the performance of the farm labourers at *Wattam Grove*.

Wattam Grove Workforce performance data	2015
Total output of fruit (in kilograms)	300 000
Fruit wasted (in kilograms)	60 000

Table 1

(a) Using the information given in **Table 1**, calculate *Wattam Grove*'s wastage rate in 2015.

Show your workings:

	Wastage rate =%	
_	[2]
(b)	Explain two ways in which Eric might be able to improve the motivation levels of farm labourers.	the
	1	-
		-
	2	-
		-
	[4	J

2 Percy is concerned about the financial performance of *Wattam Grove*.

Wattam Grove Financial Data	2015
Sales revenue	£430 000
Cost of sales	£264000
Expenses	£182000

Table 2

- (a) Using the information given in **Table 2**, calculate:
 - (i) Wattam Grove's gross profit/loss for 2015.

Show your workings:	
£ gross profit /loss (circle as appropriate)	
	[2]

(ii) Wattam Grove's **net** profit/loss for 2015.

Show your workings:
£ net profit /loss (circle as appropriate)

[2]

Turn over

		-
All t	hree of the options under consideration at Wattam Grove are diversification stra	te
(a)	State what is meant by the term 'diversification'.	
		-
(b)	Identify one way in which diversification might help <i>Wattam Grove</i> achieve a competitive advantage.	
		-
(c)	Explain how competitor analysis could help Eric and Percy decide which diversification option <i>Wattam Grove</i> should take.	
		ı
(d)	Explain one benefit to <i>Wattam Grove</i> of Eric and Percy discussing the three diversification options with local residents before a final decision is made.	

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Turn over for next question

Turn over

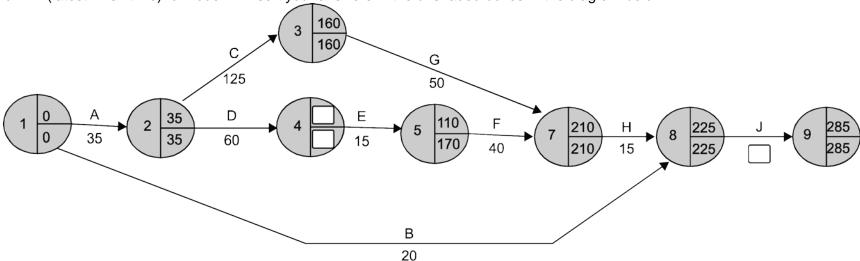
4 If Wattam Grove takes Option 1 – Jam and preserves the farm will produce its own range of speciality jam.

A production schedule for making one 500 jar batch of raspberry and elderflower jam is given in **Table 3** below.

Activity	Description	Duration (minutes)
Α	Prepare ingredients	35
В	Sterilise and label jars	20
С	Boil fruit and sugar mix	125
D	Slow simmer flavourings	60
Е	Adjust flavourings	15
F	Cool flavourings	40
G	Cool fruit mixture	50
Н	Blend fruit mixture and flavourings	15
J	Fill jars, seal and package	60

Table 3

(a) Using the information in **Table 3**, complete the network diagram below, by inserting the duration of activity J and the EST (earliest start time) and LFT (latest finish time) for node 4. Insert your answers in the unshaded boxes in the diagram below.



Network diagram for one 500 jar batch of raspberry and elderflower jam

(b)	What is the shortest amount of time in which Wattam Grove can make one 500 jar batch of raspberry and elderflower jam?	[3]
		[1]
(c)	Calculate the float time of Activity B.	
		[1]
(d)	Identify the sequence of activities on the critical path.	

Turn over

E ₁	valuate external sources of finance which Wattam Grove could use to fund Option amping and caravan site.
C.	amping and caravan site. [
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6

ò	If Wattam Grove goes ahead with Option 3 – Paintballing , Eric and Percy will need to make several marketing decisions.					
	(a)	Explain one way in which <i>Wattam Groves</i> ' marketing budget of £20,000 may affect how Eric and Percy decide to promote Option 3 – Paintballing .				

[2]

Wattam Grove: Primary Research for Option 3 - Paintballing

320 members of the general public aged 14-45 years were asked how much they would be willing to pay for a speedball session with 100 paintballs at *Wattam Grove*.

				Willing to p	pay		
Respondent:	Less than £6	£6	£7	£8	£9	£10	More than £10
Female 14-18 years	20	15	18	8	2	1	0
Male 14-18 years	4	7	9	11	13	6	7
Female 19-30 years	0	8	8	16	6	4	2
Male 19 -30 years	2	6	9	13	16	5	6
Female 31 – 45 years	5	10	10	14	3	0	0
Male 31 – 45 years	0	6	8	14	15	9	4

Table 4

(b)	Using the results of the primary research shown in Table 4 , suggest what price <i>Wattam Grove</i> should charge the general public for a speedball session with 100 paintballs.
Shov	w your workings:
Price	e to charge = £
(c)	Explain one way in which Porter's Five Forces model could help Eric and Percy decide what price to charge corporate clients for an evening team building event.
	[2]
	[4]

Turn over

SPECIMEN

(a) ——	Distinguish between quantitative and qualitative information.
(b)	Using both quantitative and qualitative information, evaluate which of the three options <i>Wattam Grove</i> should take.
	options wattam Grove should take.

END OF QUESTION PAPER

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SPECIMEN

Sample Assessment Material

LEVEL 3 CAMBRIDGE TECHNICAL IN BUSINESS

60

Unit 3: Business decisions

MARK SCHEME

Duration: 1 hour and 30 minutes

MAXIMUM MARK

SPECIMEN

Version: 1 Date: 01/10/15

This document consists of 14 pages

Q	uestion	Answer	Marks	Guidance
1	(a)	Indicative content: Wastage x 100 = 60,000 x 100 = 20% Output 300,000 Exemplar responses: e.g. 20 (2) e.g. 60,000/300,000 (1) e.g. waste divided by output (1)	2	Up to two marks. Award full marks for '20' irrespective of workings. Otherwise award max 1 mark for correct formula (in words or figures) or 0.2 if seen.
1	(b)	Responses include: change of management style listen to workforce involve workforce in decision-making empowerment increase pay rate pay a retainer to temporary labourers use a bonus scheme more breaks improve health and safety improve working conditions job enrichment job rotation reward long service soften his approach to human resource management.	4	One mark for each correct identification up to a maximum of two identifications, plus a further one mark for each of two explanations.

Q	uesti	on	Answer	Marks	Guidance
			e.g. Motivation levels could be increased by involving the labourers in the day to day decision-making at the farm (1). This is likely to make the labourers feel respected and valued and more willing to work for the benefit of the farm (1).		
2	(a)	(i)	Indicative content: Gross profit = Sales revenue - Cost of sales Gross profit = £430,000 - £264,000 = £166,000 (1) gross profit (1)	2	Up to two marks. One mark for £166,000. One mark for 'profit' circled (or otherwise indicated).
2	(a)	(ii)	Indicative content: Net profit = Gross profit - expenses Net profit = £166,000 (OFR) - £182,000 = £16,000 (1) net loss (1)	2	Up to two marks. One mark for £16,000. One mark for 'loss' circled (or otherwise indicated). OFR applies – answer to 2(a)(i) minus £182,000.
2	(b)		gross profit/loss only deducts direct costs/cost of goods sold gross profit /loss does not deduct expenses gross profit/loss would give an inflated view of the business net profit/loss deducts all expenses taxed on net profit not gross profit net profit/loss is the overall/final profit/loss made net profit/loss is the bottom line figure.	2	One mark for a correct identification, plus a further one mark for an explanation.

Q	uestion	Answer	Marks	Guidance
		e.g. Gross profit/loss is not the final profit/loss made (1). Eric and Percy need to use the net profit/loss figure which deducts all expenses to find out whether the farm is performing well enough to support their families (1).		
3	(a)	totally different area of operation entering a business venture they have no experience of doing something different to current portfolio different product in different market.	1	For one mark.
3	(b)	Reponses include: spread the risk reduce market volatility serve a gap in the market meet customer needs more revenue streams greater opportunity to make a profit.	1	For one mark.
3	(c)	 Responses include: identify nearest competitors (Options 2 and 3) identify brand competition (Option 1) provide information on the strength and nature of competition information on competitor marketing activities identify gaps in provision. 	2	One mark for a correct identification, plus a further one mark for an explanation.

Q	uestic	n Answer	Marks	Guidance
		e.g. The brothers could find out where the nearest paintballing arena is (1). If it is close by then this may rule out this option (1).		
3	(d)	 to gauge strength of feeling to minimise rumour to garner support to allay fears to reduce objections to minimise protest to pre-empt resistance to consider other perspectives to gain more ideas to factor local resident opinion into decision-making. Exemplar response: e.g. Consulting local residents before making a decision may help to allay the residents' fears (1), minimising the likelihood of them objecting to any planning applications which the farm needs to make (1). 	2	One mark for a correct identification, plus a further one mark for an explanation.
4	(a)	Indicative content: $J = 60 \text{ (1)}$ $node 4 = \frac{95}{155} \text{ (1)}$	3	One mark for a correct identification up to a maximum of three identifications.

	uesti	on	Answer	Marks	Guidance
4	(b)		Indicative content:	1	For one mark.
			285 minutes (1)		Units must be correct.
			Exemplar responses:		Accept equivalents e.g. 4 hours 45 minutes
			e.g. 285 mins (1)		
			e.g. 4 ¾ hours (1)		
			e.g. 285 (0)		
4	(c)		Indicative content:	1	For one mark.
			225 minutes – 20 minutes = 205 minutes (1)		Units must be correct.
			Exemplar responses:		Accept equivalents e.g. 3 hours 25 minutes
			e.g. 205 mins (1)		
			e.g. 3.42 hours (1)		
			e.g. 205 (0)		
4	(d)		Indicative content:	1	For one mark.
			A-C-G-H-J (1)		Letters must be in the correct order.
			or		Do not award if additional tasks are identified.
			Prepare ingredients, Boil fruit and sugar mix, Cool fruit mixture, Blend fruit mixture and flavourings, Fill jars, seal and package (1)		

Question	Answer	Marks	Guidance
5	Use level of response criteria.	12	NB: This question includes six embedded marks for applying knowledge from Unit 1 LO7 Understand why
	Responses include:		businesses plan.
	bank loan		Levels of response
	 commercial mortgage 		
	overdraft		Level 4 (10 - 12 marks)
	credit card		Candidate evaluates external sources of finance which
	grant		Wattam Grove could use to fund Option 2.
	 trade credit/hire purchase 		Level 3 (7 - 9 marks)
	loan from relatives/friends		Candidate analyses external sources of finance which
	additional partner investment (expand the		Wattam Grove could use to fund Option 2.
	partnership)		
	 shares (change of legal status to Ltd). 		Level 2 (4 – 6 marks)
	Exemplar response:		Candidate explains external sources of finance which Wattam Grove could use.
	e.g. The two brothers could try and expand the partnership by finding an additional partner who would be willing to join the business (L1) . Taking on an additional partner would, however, reduce Eric and Percy's control of <i>Wattam Grove</i> (L2) . It is also unlikely that a new partner would be willing or able to invest the		Level 1 (1 – 3 marks) Candidate identifies external sources of finance.
	required £280,000 in the business (L3).		
	Instead, the two brothers could get a bank loan (L1) . Due to the size of the loan the repayments would need to		
	be spread over a number of years (L2) . Spreading the loan over a longer term should help to ensure that the		
	farm has enough income to cover the monthly payments,		
	especially when the site is new and the brothers are		
	attempting to raise public awareness (L3).		
	A bank loan would be the best external source of finance		
	for the brothers to use as, unlike taking on a new partner,		

C	uestion	Answer	Marks	Guidance
		it would allow them to retain full control of the business (L4) . However, the longer the term of the loan the greater the amount of interest that will need to be paid, reducing profitability (L4) . Eric and Percy need to factor this into the profitability of Option 2 before making their decision on which option to choose (L4) .		
6	(a)	Provided Responses include: Initial constraint In	2	One mark for a correct identification, plus a further one mark for an explanation.

Q	uestion	Answer	Marks	Guidance
6	(b)	Indicative content: $< £6 = 31$ respondents $£6 = 52$ respondents $£7 = 62$ respondents $£8 = 76$ respondents $£9 = 55$ respondents $£10 = 25$ respondents $>£10 = 10$ respondents Exemplar response: e.g. £8 (2) e.g. $£8 (2)$ e.g. £608 (1)	2	Up to two marks. Award full marks for the correct answer: 8. Otherwise max 1 mark for 76 respondents (at £8) or attempts to work out the revenue (76 * £8 = £608).
6	(c)	Indicative content: • threat of new entrants • threat of substitute products or services • bargaining power of customers • bargaining power of suppliers • intensity of competitive rivalry Exemplar response: e.g. Porter's Five Forces model says that Eric and Percy need to take into account the intensity of competitive rivalry (1). If there is strong competition in the area then this will limit how much Eric and Percy can charge. If they charge too much of a premium then the corporate customer would book with the competition (1).	2	One mark for a correct identification, plus a further one mark for an explanation.

Q	uestion	Answer	Marks	Guidance
7	(a)	quantitative – numerical, statistical, mathematical, factual, capable of being proven/disproven. qualitative – non-numerical, descriptive, preferences, based on opinion, not provable Exemplar response: e.g. Quantitative information attempts to present facts as numbers (1) whereas qualitative information is based on feelings and is seen as a matter of opinion (1).	2	One mark for quantitative. One mark for qualitative.
7	(b)	Use level of response criteria: Responses include: risk e.g. degree, nature, attitude towards; financial, non-financial degree of uncertainty e.g. accuracy of forecasts, dependence on external variables, extent of change external business environment e.g. interest rates, disposable income, social trends, lack of market power, UK spending patterns internal business environment e.g. family business, need to support two families, work-life balance core competencies e.g. farming key personnel e.g. leadership style, owners' strengths/weaknesses family situation e.g. Marie unemployed, twins hoping to go to university; Pat part-time school cook, young daughter experience/expertise/skills e.g. catering, paintballing	16	NB: This question can be answered from a general business perspective or from the perspective of a specific pathway/function (or a hybrid of both). In all cases the same level of response criteria apply. Levels of response Level 4 (13 - 16 marks) Candidate recommends and justifies which option Wattam Grove should take using quantitative and/or qualitative argument. Level 3 (9 - 12 marks) Candidate analyses one or more options under consideration at Wattam Grove. Level 2 (5 - 8 marks) Candidate explains issues relating to one or more options under consideration at Wattam Grove. Level 1 (1 - 4 marks) Candidate identifies issues related to decision making.

Question	Answer	Marks	Guidance
	accuracy of Percy's occupancy forecast for Option 2 business goals e.g. profit to support both families business ethics e.g. social responsibility impact on stakeholders e.g. local residents competition – current, future, barriers to entry use of retained profit ie £300 000 current gross profit/net loss capital costs finance options investment appraisal revenue costs workforce morale and motivation workforce performance wastage levels specific accounting and finance factors e.g. cash flow, break-even, profitability specific human resource factors e.g. recruitment, training, workforce management specific business planning factors e.g. resource requirements, project management, change management, contingency planning additional income streams – café , coaching impact on current operations e.g. soft fruit production legal constraints e.g. planning permission, hygiene certificate, site licence, firearms licence time/timing practical and operational matters		NB: The question requires the use of quantitative and qualitative information. Therefore evaluative responses which contain solely quantitative or qualitative argument cannot be awarded full marks. Evaluative responses which contain both quantitative and qualitative argument must be awarded a mark at the top of mark band 4 ie 15/16 marks.

Question	Answer	Marks	Guidance
	are extremely volatile and last year made a net loss (L4). Moreover, Eric and Marie will need extra funds to support their twin sons through university next year and this seems the only option which is likely to be profitable enough to provide this (L4). Whilst being five miles from the south coast seems an ideal location for a camping and caravan site, it is recommended that Percy's occupancy figures for this option are reassessed before a final decision is made. If these are unrealistic then this option may not be as profitable as first thought (L4). e.g. General business perspective Risk is an important factor to take into account when making business decisions (L1). All three of the options are diversification options and as such, according to Ansoff, carry a high degree of risk (L2). However, some of the options appear more risky than others. Eric and Percy appear to have no knowledge or experience of how to set up or run a camping and caravan site, this would make taking this option extremely risky and, therefore, make it far less likely to succeed (L3). Pat, on the other hand, has been on a catering course and currently works as a school cook. This expertise could increase the chances of Option 1 being a success, making it a far less risky option to take than Option 2 (L3). Moreover, this option may be able to use some of		
	the farm's damaged fruit (L2) thus minimising wastage levels (L3). I recommend Option 1 because it is essential that the		
	option which the two brothers choose succeeds (L4) . If the option which they choose fails then they will be unable to financially support their families and may have to sell their cherished farm which they inherited from		

Question	Answer	Marks	Guidance
	their father (L4) . Furthermore, in contrast with the other two options, this option is unlikely to cause undue concern to local residents, does not require planning permission and only requires a hygiene certificate. Thus, minimising any difficulties which might be encountered during the implementation of the option (L4) .		