

Cambridge International Examinations Cambridge International Advanced Level

BUSINESS

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Paper 3 Case Study MARK SCHEME Maximum Mark: 100

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Question	Answer					
1	Analyse t its shoes		tsourcing the manufact	ure of components for	10	
	Level	Knowledge 3 marks	Application 2 marks	Analysis 5 marks		
	2	3 marks: Two or more relevant points made about outsourcing and/or benefits	2 marks: Points made are applied to PV	4–5 marks: Good use of theory to explain benefits of outsourcing		
	1	1–2 marks: One or two relevant points made about outsourcing and/or benefits	1 mark: Some application to PV	1–3 marks: Some use of theory to explain benefits of outsourcing		
	0		No creditable content			
	 Outso PV co shoes Lowe to she specia Lowe Highe Savin Expendent to draw 	Benefits sha employees of could include: burcing is transferring fun buld increase flexibility of s, achieving higher quality r operating costs might b ed higher cost elements of alists might have. r inventory levels could b er quality may result as sp gs from less capital need tise from other business w on.	e achieved by drawing or of production and gain the e held. pecialists supply. led.	ompany, not e.g. to organisation te on the manufacture of a specialists, enabling PV		
	 mark PV m Read shoe Implic leather Refer also 9 Might Expending 	o shoes / components on as in stem of question ight outsource supplies of ily accessible network of materials and componen cations for shoe production ar ence to how outsourcing 95% capacity utilisation further outsourcing help	on, including mention of sp might help Pedro's high i with shoe defect problem es with more experience of	eather, packaging ficient supply chain for pecifics, such as laces, nventory problems and is?		

Question	An	swer		Marks
2(a)(i)	Refer to the table in Appendix 1. Calcul	ate:		1
	seasonal variation in 2015 Quarter 1.			
	\$30m – 21.375 = \$+8.625m			
	\$m not required			
2(a)(ii)	average seasonal variation in Quarter 4	l.		1
	\$m(-1.375 - 1.125 - 1.875) / 3 = \$-1.458	(\$–1.46m 2 decimal p	laces or – 1.5)	
	\$m not required			
2(b)	Refer to the table <u>and</u> graph in Append Quarter 3 in 2017.	ix 1. Calculate PV's f	orecast sales for	3
	Predicted trend from inspection of graph: (error margin 23.75 – 23.85)	\$23.8m	(1 mark)	
	Add average seasonal variation:	\$-6.125m	(1 marks)	
	Accept 17.68 or 17.7 (3 marks) (error margin 17.625 – 17.725)	= \$17.675m	(3 marks)	
	\$m_not required OFR Up to 2 marks can be awarded for:			
	 Logical attempt to predict trend using (e.g. by considering the average of the Correct use of seasonal variation 		(1 mark) (1 mark)	

Question	Answer					
2(c)	Discuss the usefulness of sales forecasts to PV when making marketing decisions. Refer to your result from 2(b).					
	Level	Knowledge 2 marks	Application 2 marks	Analysis 4 marks	Evaluation 4 marks	
	2	2 marks Two or more relevant points made	2 marks Application of two or more points to PV	3-4 marks Good use of theory to answer question	3-4 marks Good judgement shown	
	1	1 mark One relevant point made	1 mark Some application to PV	1-2 marks Some use of theory to answer question	1-2 marks Some judgement shown	
	0		No credita	ble content		
	Answers Meth Sale varia Fore PV fa to as plant Case buye poss May analy How If Pe chan	could include: nods of forecasting s forecasting using tions and gives a casting enables p aces clear season sume that the futu- ning. e indicates possible rs' requirements, ibility of direct sell be advisable to in ysis. forecasts contribu- dro is certain the futu- inges that other evi	g Time Series Anal realistic prediction. lanning, this metho al variation and cou ure will be similar, n le changes to the m increasingly fragme ling, thus decreasin	ysis takes account d fits sales pattern nsistent past trends naking forecasting narket – buyer's cor ented relationships ig value of forecast t of probability to the ing and production uture success PV n	of seasonal well i.e. s so it is reasonable valuable for mments, change in with buyers, ing. he forecasts – what if planning	
	 Multi Poss Poss Use Fore PV fator Evaluation More Relian Other beha 	cast only refers to national shoe reta- sible more efficient sible effects of inve- of graph to indicat cast shows increa- aces clear season on e reliable than sim es on future events r evidence needs aviour, likely future	export market, not ailer buyers, takeov t working methods estment in new mac te changes in patte ased sales al variation and con ple forecasting or ju s behaving as in pa to be taken into ac government action exports, informatio	ers by larger shoe may lower costs chinery rn (lower growth ra nsistent past ust projecting a tren ist patterns so may count e.g. predictions, and / or econom	manufacturers te in 2016) nd not be reliable on of competitors' nic changes	

Question	Answer						
3	Discus: objectiv	-	hange the way it o	rganises productio	on to achieve its	16	
	Level	Knowledge 2 marks	Application 2 marks	Analysis 6 marks	Evaluation 6 marks		
	2	2 marks At least two relevant points made	2 marks Good application	4-6 marks Good use of theory to answer question	4-6 marks Good judgement shown with supporting analysis		
	1	1 mark One relevant point made	1 -2 marks Some application to PV	1-3 marks Some use of theory to answer question	1-3 marks Some judgement shown		
	0		No credita	ble content			
	Answer Obj 60% inve Sug qua Fas Lov on Cel Ber Inci Qua Nev	that proc s could include: jectives are higher % delivery time met entory costs. ggestions might foc ality assurance/TQN ster order led produ	iction following close er) held, linked to o employees.	motivation must be of defect rate), less osts, reduce wastag ction and shift from er liaison with buyer	linked to delays (currently e to 5%, reduce quality control to rs (JIT)		
	 Application Reference to current problems or possible objectives (currently high defect rate, 60% delivery time met, wastage at 5%). Present methods are assembly line, single task workers, final stage quality checks, high inventory. 						
	 ava Will Doe bus Wh Will 	anges will take time ailable? Will they ac I the changes be in es Pedro have the siness? at steps are the inc	e money and resourd chieve the required i time to prevent loss commitment to char creasing competition anges be covered by endation.	mprovements? s of orders? nge what he has be n taking?	en his successful		

Question	Answer		Marks
4(a)(i)	Refer to Appendix 2. Calculate:		2
	payback period.		
	4.25 years or 4 years 3 months Some attempt e.g. cumulative net cash flows	(2 marks) (1 mark)	
4(a)(ii)	accounting rate of return over the 5 year life of the investment.		3
	Net cash flows / years as % = $\frac{2.3 - 2}{5} \times 100 = \frac{0.3 \times 100}{5} = 6\%$ (or 0.06) or		
	Average annual net cash flow – annual depreciation/initial cost as % = $0.46 - 0.4 = 0.06 / 2 \times 100 = 3\%$ (or 0.03)		
	or		
	Sum of Net cash flow each year – average depreciation/initial cost as % = $0.1 + 0.1 + 0.1 + 0 = 0.3 / 2 \times 100 = 15\%$ (or 0.15)		
	Some attempt with partially complete correct working Some attempt / correct formula	(2 marks) (1 mark)	
4(a)(iii)	net present value over the 5 year life of the investment.		2
	NPV = -\$0.235m (accept -\$0.24m or -\$0.23m)	(2 marks)	
	Sum DCF over 5 years = \$1.765m (accept \$1.77m or \$1.76m)	(1 mark)	
	Some reasonable attempt e.g.mistake in calculation	(1 mark)	
	\$m not required		
4(b)	Refer to Appendices 2 and 3. Calculate the discounted payback period annual net cash flows of \$0.4m continue after year 5.	od if the	2
	Just over 6 years / 6.054 years (accept 6 years)	(2 marks)	
	Use of DCF or some reasonable attempt e.g. 6.647yrs	(1 mark)	
	Examiner Note: Example of Full Calculation (details not required for 2 mail	rks):	
	NPV over 5 years + DCF in year 6 = $-$ \$0.235 + (0.56 × \$0.4m) = $-$ \$0.011r Therefore NPV reaches zero in just over 6 years	n	
	Year 7 DCF for whole year: 0.51 × \$0.4m = \$0.204m So, Year 7 DCF per day: \$0.204m / 365 = 0.00056		
	Therefore, answer is 6 years + (0.011 / 0.00056) = 6 years 20 days. (6yrs 0.647mths)		

Question	Answer						
4(c)	Refer to your answers to 4(a), 4(b) and other relevant information. Recommend whether PV should invest in new machinery. Justify your answer.						
	Level	Knowledge 2 marks	Application 2 marks	Analysis 4 marks	Evaluation 4 marks		
	2	2 marks Two or more relevant points made	2 marks Application of two or more points to PV	3–4 marks Good use of theory to answer question	3–4 marks Good judgement shown with supported recommendation		
	1	1 mark One relevant point made	1 mark Some application to PV	1–2 marks Some use of theory to answer question	1–2 marks Some judgement shown		
	0		No credita	ble content			
		only	n figure rule from 4(y use results or only		L1 AN and EVAL if tion.		
	Answer: Initial	onl <u>y</u> s could include: investment cost	y use results or only cash flow \$m	use other informat iscount factor at 10%	ion. Net cash flow discounted at 10% \$m		
	Answer: Initial	only s could include: investment cost Yr 0	cash flow \$m	use other informat iscount factor at 10%	tion. Net cash flow discounted at <u>10% \$m</u> (-2)		
	Answer: Initial	only s could include: investment Cost Yr 0 Yr 1	cash flow \$m (2) 0.5	iscount factor at 10%	tion. Net cash flow discounted at <u>10% \$m</u> (-2) 0.455		
	Answer: Initial	only s could include: investment cost Yr 0 Yr 1 Yr 2	cash flow \$m (2) 0.5 0.5	iscount factor at 10% 1 0.91 0.83	tion. Net cash flow discounted at <u>10% \$m</u> (-2) 0.455 0.415		
	Answer: Initial	only s could include: investment Cost Yr 0 Yr 1	cash flow \$m (2) 0.5	iscount factor at 10%	tion. Net cash flow discounted at <u>10% \$m</u> (-2) 0.455		
	Answer: Initial	only s could include: investment Cost Yr 0 Yr 0 Yr 1 Yr 2 Yr 3	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	iscount factor at 10% 1 0.91 0.83 0.75	tion. Net cash flow discounted at <u>10% \$m</u> (-2) 0.455 0.415 0.375		
	Answer: Initial	only s could include: investment Cost Yr 0 Yr 1 Yr 2 Yr 2 Yr 3 Yr 4 Yr 5 Yr 6	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	use other informat iscount factor at 10% 1 0.91 0.83 0.75 0.68 0.62 0.56	tion. Net cash flow discounted at 10% \$m (-2) 0.455 0.415 0.375 0.272 0.248 0.226		
	Answer: Initial	only s could include: investment Cost Yr 0 Yr 0 Yr 1 Yr 2 Yr 2 Yr 3 Yr 4 Yr 5	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	use other informat iscount factor at 10% 1 0.91 0.83 0.75 0.68 0.62 0.56	tion. Net cash flow discounted at 10% \$m (-2) 0.455 0.415 0.375 0.272 0.248		

Question	Answer	Marks
	BUT	
	All figures are forecast and may be better than expected.	
	• Discounted payback and NPV show that 6 years is the time when investment is	
	repaid – only one year longer than expected lifetime.	
	 Expected lifetime is a very conservative estimate – current machinery is 14 years old and expected life in the industry is ten years. 	
	These point to going ahead with investment.	
	Other things to consider are:	
	The risks associated with the forecasting of the cash flows.	
	the speed with which the existing machinery will deteriorate.	
	• the importance of new machinery in the strategy to reduce costs and increase quality.	
	 the availability of finance – there is money for the marketing options so this may not be a problem but Pedro does have to obtain finance. 	
	Application	
	Use made of answers from 4(a)	
	Reference to 10 year expected life	
	Evaluation	
	• A supported recommendation should follow consideration of pros and cons of making the investment.	
	Points made re adequacy / inadequacy / reliability of methods from 2 (a)	
	Assessment of importance of other information e.g. possible future market	
	conditions, economic factors, government actions, availability and cost of finance, other planned changes by PV.	

Question	Answer					Marks	
5	Evaluate how PV should respond to the threat of employees leaving the business (lines 65–71).						
	Level	Knowledge 2 marks	Application 2 marks	Analysis 6 marks	Evaluation 6 marks		
	22 marks Good knowledge of relevant factors2 marks Application of two or more points to PV4–6 marks Good use of theory to answer question4–6 marks Good judgement shown in weighing up the 						
	1	1 mark Some knowledge of relevant factors	1 mark Some application to PV	1–3 marks Some use of theory to answer question	1–3 marks Some judgement shown		
	0		No credital	ole content			
	Note to e	points	er should focus on re: motivation, lea may be relevant if	dership or other H			
	Answers could include:						
	Reasons	for leaving may inc	clude:				
	simil Job t Poor Auto BUT Carir	average wages pa ar businesses tasks very specific, promotion opportu cratic decision mak	possible boredom inities cf. to elsewh king and lack of pai rently average wag	and lack of wider t ere ticipation es	training		
	• Little	uncertainty in job	tasks means stabili	ity and limited resp	onsibility		
	 Great New great Lowet 	changes about to hater delegation with machines and pote ter involvement / ch er costs may enable sible new designer	quality assurance ential for change in nange e higher wages	not control production metho			
	 Reserve Ieave Can May 	e and satisfaction a	e attitudes to impor t work. se payments to en sful marketing / pro	ployees in higher duction changes	fluencing decision to wages or bonuses?		
	• Ease	n the labour market and cost of finding levels in labour ma	g replacement emp	loyees			

Question				Answer		Marks
	lab 117 Evalua Discuss Mo We Rel Su	yment is avera our turnover, s 7 employees tion sion of factors st important fa sighing up the i lating factors a oported recom	should enable ctor or ranking impact of factor ind any decision	ior manager e evaluative common g of importance of prs on the busines	factors s if employees leave or not tional area objectives and plans	
		•		nd 7 use this ma	rking grid:	
	Level	Knowledge 3 marks	Application 3 marks	Analysis 4 marks	Evaluation 10 marks	
	3				7–10 marks: Good judgement shown throughout with well supported conclusion/recommendation, focused on	
	2	3 marks: Good understand- ing shown	3 marks: Good application to PV	4–6 marks: Good use of reasoned argument or use of theory to explain points made to explain points made	4–6 marks: Some judgement shown in the main body of the answer and an attempt to support conclusion/recommendation, focused on with some focus on PV	
	1	1–2 marks: Some understand- ing shown	1–2 mark: Some application to PV	1–3 marks: Limited use of reasoned argument or use of theory to support points	1–3 marks: Limited attempt to show judgement either within the answer OR a weakly supported conclusion/ recommendation with some	
				made	focus on PV	

Question	Answer	Marks
6	Evaluate the importance of strategic analysis for PV when considering options A and B.	20
	<i>Note to examiners:</i> A recommendation for Option A or B will NOT fully answer the question.	
	Answers could include:	
	 Explanation of strategic analysis and its techniques – SWOT, PEST, Boston Matrix, Porters 5 Forces, core competencies. Place of strategic techniques in strategic management Critical comments on the techniques Recognition that Option A and B are marketing options and that marketing planning concepts may be used Application of these techniques to Option A or B 	
	 Example: Option A – designer shoes SWOT – strengths and opportunities but note weaknesses PEST – increasing interest in designer shoes, increasing middle class incomes, advanced machinery and new materials Boston Matrix – only "cash cows" in current product range Porters 5 Forces – faces threat on new competition, high bargaining power of customers and suppliers but little threat of substitutes means high degree of rivalry in current markets Core competencies – variety of shoes made in response to demand 	
	 Possible conclusion All techniques indicate a change of emphasis could be highly beneficial and Option A strongly worth considering 	
	 Option B – alter target markets and distribution methods SWOT – strengths, especially existing sales networks but note weaknesses PEST – export market shows little sign of change except exchange rate and possible increasing interest in expensive exclusive shoes, domestic market increasing, Boston Matrix – only 'cash cows' in current product range Porters 5 Forces – faces threat of new competition, high bargaining power of 	
	 customers and suppliers but little threat of substitutes means high degree of rivalry in current markets Core competencies - variety of shoes made in response to demand 	
	 Possible conclusion All techniques indicate a change of emphasis could be highly beneficial and Option B strongly worth considering, if additional distribution networks set up. 	
	 Application Information from case used in strategic analysis techniques 	

Question	Answer	Marks
	Evaluation Clear conclusion as to the importance of strategic analysis and/or techniques including:	
	 Importance of understanding where the business is now in order to generate ideas and / or support for options A and B Comments that strategic analysis on its own is not enough to fully support a decision Weighing up importance of other stages in strategic management especially objectives and choice techniques in relation to strategic analysis Ranking the usefulness of the techniques in relation to Option A or B 	
	 An assessment of the relative importance of marketing planning in relation to strategic analysis An assessment of the importance of timing and a timescale in carrying out analysis. 	
7	Discuss the importance of strategic management to the future success of PV.	20
	<i>Note to examiners:</i> Strategic management covers two main topics – business planning and the process of setting objectives, analysis, choice implementation and review to achieve these. Either approach is to be credited.	
	Answers could include:	
	 Definition / explanation of strategic planning and management, possibly including: Business plans and their contents Components of strategic management – vision statements / objectives, analysis, choices, implementation and evaluation Problems / issues faced by PV, possibly including decisions centred on: Possible production and sourcing changes Future marketing options HRM policy Possible investment plans Pedro as main decision maker Relating strategic planning and management to the position of PV in the market overall and with regard to these topics 	
	 Application: Current problems faced by PV Future possibilities being considered in the case The economic and market conditions faced by PV 	
	 Evaluation: Assessing the importance of the processes for PV in the situation it is facing Highlighting the possible order of priorities and how the processes could assist in setting and achieving objectives The extent to which Pedro needs to address these processes. 	