

Cambridge International Examinations

Cambridge International Advanced Level

BUSINESS 9609/33

Paper 3 Case Study May/June 2017

MARK SCHEME
Maximum Mark: 100

Published

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[Turn over

| estion | | | Answer | | Marks | |
|--------|---|---|---|--|-------|--|
| 1 | Analyse the benefits to PV of outsourcing the manufacture of components for its shoes. | | | | | |
| | 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 construction Lower to she special Lower Higher Savin Experi | ould increase flexibility of s, achieving higher quality roperating costs might be ad higher cost elements calists might have. I inventory levels could be quality may result as specified from less capital need tise from other businesses woon. | e achieved by drawing on of production and gain the e held. pecialists supply. led. | e on the manufacture of specialists, enabling PV | | |
| | Ref to mark PV m Read shoe Implicit leather also 9 Might | shoes / components onless in stem of question ight outsource supplies of accessible network of materials and component eations for shoe productions are concept to how outsourcing the shoet | f eyelets, laces, dyeing le component suppliers / eff ts en, including mention of sp might help Pedro's high i with shoe defect problem | ficient supply chain for pecifics, such as laces, nventory problems and s? | | |

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| Question | Ans | swer | | Marks |
|----------|--|------------------------|----------------------|-------|
| 2(a)(i) | Refer to the table in Appendix 1. Calcula | ate: | | , |
| | seasonal variation in 2015 Quarter 1. | | | |
| | \$30m - 21.375 = \$+8.625m | | | |
| | \$m not required | | | |
| 2(a)(ii) | average seasonal variation in Quarter 4 | | | , |
| | \$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 Appendi Quarter 3 in 2017. | x 1. Calculate PV's fo | orecast sales for | ; |
| | 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 to (e.g. by considering the average of the Correct use of seasonal variation) | | (1 mark) (1 mark) | |

| Question | | | Answe | r | | Marks | |
|----------|---|---|--|---|---|-------|--|
| 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 | able content | | | |
| | Sale varia Fore PV fore to as plant Case buye poss May analy How If Pe | ations and gives a ecasting enables p aces clear seasor sume that the fut ning. e indicates possib ers' requirements, sibility of direct sel be advisable to in ysis. If forecasts contributed is certain the niges that other ev | g Time Series Anal realistic prediction. planning, this methonal variation and colure will be similar, rule changes to the mincreasingly fragmeling, thus decreasing | d fits sales pattern nsistent past trends naking forecasting narket – buyer's contented relationships by value of forecast of probability to the ting and production uture success PV r | well i.e. s so it is reasonable valuable for mments, change in with buyers, ting. ne forecasts – what if planning | | |
| | Fore Multi Poss Use Fore PV fore Wore Relief | ccast only refers to inational shoe retained inational shoe retained in the sible effects of inversible indicated in the second in the second in the second indicated in the second | nal variation and con uple forecasting or just s behaving as in pa | ers by larger shoe may lower costs chinery rn (lower growth ra nsistent past ust projecting a trei | manufacturers Ite in 2016) Ind Ind Inot be reliable | | |

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| Question | | | Answei | • | | Marks | |
|----------|---|--|---|--|--|-------|--|
| 3 | Discuss how PV might change the way it organises production to achieve its objectives. | | | | | | |
| | 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 | | | |
| | Obj 60% inversions Sug quate Fast Low on state Cel Ber Incr Quate New | pro- s could include: ectives are higher delivery time me entory costs. ggestions might for lity assurance/TQl ster order led produ | uction following close ner) held, linked to or employees. | th defect rate), less sts, reduce wastag stion and shift from er liaison with buye | delays (currently e to 5%, reduce quality control to | | |
| | 60% • Preche Evaluat • Chaava • Will • Doebus | erence to current possessed to | assembly line, single | e task workers, fina ces of expertise to mprovements? s of orders? age what he has be taking? | I stage quality plan. Are these en his successful | | |

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A supported recommendation.

| 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) | | |
| | 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 = 0.3 / 2 × 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 peri 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 ma | ırks): | |
| | NPV over 5 years + DCF in year 6 = $-\$0.235 + (0.56 \times \$0.4\text{m}) = -\$0.011$ Therefore NPV reaches zero in just over 6 years | m | |
| | Year 7 DCF for whole year: $0.51 \times \$0.4m = \$0.204m$ 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) | 3 | |

| Ref | fer to | your answers | to 4(a), 4(b) and ot | ner relevant inform | nation. Recommend | | |
|-----|---|---|---|--|--|--|--|
| | whether PV should invest in new machinery. Justify your answer. | | | | | | |
| Le | evel | 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 | | |
| | _ | | No credit | able content | | | |
| Not | | O | Own figure rule from 4 nly use results or onl | (a) and 4(b) applies | | | |
| Noi | te to | os could include: | Own figure rule from 4 nly use results or onl | (a) and 4(b) applies | | | |
| Noi | te to | o s could include: investment | Own figure rule from 4 nly use results or onl | (a) and 4(b) applies y use other informat Discount factor | tion. Net cash flow discounted at | | |
| Noi | te to | o s could include: investment cost Yr 0 Yr 1 | Own figure rule from 4 nly use results or onless let cash flow \$m (2) 0.5 | (a) and 4(b) applies y use other informat Discount factor at 10% 1 0.91 | Net cash flow discounted at 10% \$m (-2) 0.455 | | |
| Noi | te to | s could include: investment cost Yr 0 Yr 1 Yr 2 | Own figure rule from 4 nly use results or onless let cash flow \$m (2) 0.5 0.5 | (a) and 4(b) applies y use other informat Discount factor at 10% 1 0.91 0.83 | Net cash flow discounted at 10% \$m (-2) 0.455 0.415 | | |
| Noi | te to | cost Yr 0 Yr 1 Yr 2 Yr 3 | Own figure rule from 4 nly use results or onless tested flow \$m (2) 0.5 0.5 0.5 0.5 | (a) and 4(b) applies y use other informat Discount factor at 10% 1 0.91 0.83 0.75 | Net cash flow discounted at 10% \$m (-2) 0.455 0.415 0.375 | | |
| Noi | te to | or could include: investment cost Yr 0 Yr 1 Yr 2 Yr 3 Yr 4 | Own figure rule from 4 nly use results or onle let cash flow \$m (2) 0.5 0.5 0.5 0.5 0.4 | (a) and 4(b) applies y use other informat Discount factor at 10% 1 0.91 0.83 0.75 0.68 | Net cash flow discounted at 10% \$m (-2) 0.455 0.415 0.375 0.272 | | |
| Noi | te to | or could include: investment cost Yr 0 Yr 1 Yr 2 Yr 3 Yr 4 Yr 5 | Own figure rule from 4 nly use results or onl let cash flow \$m (2) 0.5 0.5 0.5 0.5 0.4 0.4 | (a) and 4(b) applies y use other informat Discount factor at 10% 1 0.91 0.83 0.75 0.68 0.62 | Net cash flow discounted at 10% \$m (-2) 0.455 0.415 0.375 0.272 0.248 | | |
| Noi | te to | or could include: investment cost Yr 0 Yr 1 Yr 2 Yr 3 Yr 4 Yr 5 Yr 6 | Own figure rule from 4 nly use results or onlet cash flow \$m (2) 0.5 0.5 0.5 0.4 0.4 0.4 | (a) and 4(b) applies y use other informat Discount factor at 10% 1 0.91 0.83 0.75 0.68 0.62 0.56 | Net cash flow discounted at 10% \$m (-2) 0.455 0.415 0.375 0.272 0.248 0.226 | | |
| Noi | te to | or could include: investment cost Yr 0 Yr 1 Yr 2 Yr 3 Yr 4 Yr 5 | Own figure rule from 4 nly use results or onl let cash flow \$m (2) 0.5 0.5 0.5 0.5 0.4 0.4 | (a) and 4(b) applies y use other informat Discount factor at 10% 1 0.91 0.83 0.75 0.68 0.62 | Net cash flow discounted at 10% \$m (-2) 0.455 0.415 0.375 0.272 0.248 | | |

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| Question | Answer | Marks |
|----------|--|-------|
| | 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. | |

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| Question | | | Answei | | | Ma | | |
|----------|--|---|---|--|---|----|--|--|
| 5 | Evaluate how PV should respond to the threat of employees leaving the business (lines 65–71). | | | | | | | |
| | Level Knowledge Application Analysis Evaluation 2 marks 6 marks 6 marks | | | | | | | |
| | 2 | 2 marks Good knowledge of relevant factors | 2 marks Application of two or more points to PV | 4–6 marks Good use of theory to answer question | 4–6 marks Good judgement shown in weighing up the factors | | | |
| | 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 credita | ble content | | | | |
| | points re: motivation, leadership or other HRM issues. (but these may be relevant if linked). Answers could include: | | | | | | | |
| | Reasons | for leaving may in | clude: | | | | | |
| | simil Job Poor Auto BUT Cari | average wages parar businesses tasks very specific, promotion opportunctatic decision making attitude and currence uncertainty in job | possible boredom unities cf. to elsewh king and lack of par rently average wag | and lack of wider interesticipation | training | | | |
| | GreatNew greatLower | changes about to hater delegation with machines and poter involvement / cler costs may enablesible new designer | quality assurance ential for change in hange e higher wages | not control production metho | ds leading to | | | |
| | Possible actions PV might take Research into employee attitudes to importance of factors influencing decision to leave and satisfaction at work. Can PV afford to increase payments to employees in higher wages or bonuses? May depend on successful marketing / production changes Can promotion opportunities be provided? | | | | | | | |
| | • Ease | n the labour marke e and cost of finding levels in labour ma | g replacement emp | loyees | | | | |

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| Question | | | | Answer | | Marks |
|----------|--|--|---|---|--|-------|
| | Application Payment is average basic wage, opportunities in other local firms, current low labour turnover, supportive senior manager 117 employees Evaluation Discussion of factors should enable evaluative comments re: e.g. Most important factor or ranking of importance of factors Weighing up the impact of factors on the business if employees leave or not Relating factors and any decision to overall / functional area objectives and plans Supported recommendation of actions PV might take A degree of labour turnover can be good thing | | | | | |
| | | G | Questions 6 a | nd 7 use this ma | rking grid: | |
| | Level Knowledge Application Analysis Evaluation 3 marks 4 marks 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 made | 1–3 marks: Limited attempt to show judgement either within the answer OR a weakly supported conclusion/ recommendation with some focus on PV | |
| | 0 | | | No creditable con | tent | |

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| Question | Answer | Marks | | | | |
|----------|---|-------|--|--|--|--|
| 6 | Evaluate the importance of strategic analysis for PV when considering options A and B. | | | | | |
| | Note to examiners: 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 | | | | | |

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| 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 | |
| 7 | analysis. Discuss the importance of strategic management to the future success of PV. | 20 |
| | Note to examiners: 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. | 20 |
| | 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. | |

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