

3(a)	Using the data in Table 1.3, calculate the payback period for PPP's proposed new machine. Definition of payback: the amount of time it takes for the initial investment cost to be recovered (1 if no valid calculation) $(1.9) + 0.5 + 0.6 + 0.8 = 0$ payback is 3 years or 36 months (2) $0.5 + 0.6 + 0.8 = 1.9$ (1) Correct units needed for full marks – years or months.																												
3(b)	Using the data in Table 1.3, calculate the accounting rate of return (ARR) for PPP's proposed new machine. ARR = average annual profit / average investment $\times 100$ (1 if no valid calculation) ARR = $0.2 / 0.95 \times 100 = 21.05\%$ or 21.1% or 21% (2) Use of 'old' formula $0.2 / 1.9 \times 100 = 10.53\%$ (1) Correct units required for full marks – %																												
3(c)	Evaluate whether PPP should invest in the new machine. <table border="1"> <thead> <tr> <th>Level</th><th>AO1 Knowledge and understanding 2 marks</th><th>AO2 Application 2 marks</th><th>AO3 Analysis 2 marks</th><th>AO4 Evaluation 6 marks</th></tr> </thead> <tbody> <tr> <td>3</td><td></td><td></td><td></td><td> 5–6 marks Developed evaluation in context - A developed judgement/conclusion is made in the business context. - Developed evaluative comments which balance some key arguments in the business context. </td></tr> <tr> <td>2</td><td> 2 marks Developed knowledge of relevant key term(s) and/or factor(s) is used to answer the question. </td><td> 2 marks Developed application of relevant point(s) to the business context. </td><td> 2 marks Developed analysis that identifies connections between causes, impacts and/or consequences. </td><td> 3–4 marks Developed evaluation - A developed judgement/conclusion is made. - Developed evaluative comments which balance some key arguments. </td></tr> <tr> <td>1</td><td> 1 mark Limited knowledge of relevant key term(s) and/or factor(s) is used to answer the question. </td><td> 1 mark Limited application of relevant point(s) to the business context. </td><td> 1 mark Limited analysis that identifies connections between causes, impacts and/or consequences. </td><td> 1–2 marks Limited evaluation - A judgement/conclusion is made with limited supporting comment/evidence. - An attempt is made to balance the arguments. </td></tr> <tr> <td>0</td><td> 0 marks No creditable response. </td><td> 0 marks No creditable response. </td><td> 0 marks No creditable response. </td><td> 0 marks No creditable response. </td></tr> </tbody> </table>				Level	AO1 Knowledge and understanding 2 marks	AO2 Application 2 marks	AO3 Analysis 2 marks	AO4 Evaluation 6 marks	3				5–6 marks Developed evaluation in context - A developed judgement/conclusion is made in the business context. - Developed evaluative comments which balance some key arguments in the business context.	2	2 marks Developed knowledge of relevant key term(s) and/or factor(s) is used to answer the question.	2 marks Developed application of relevant point(s) to the business context.	2 marks Developed analysis that identifies connections between causes, impacts and/or consequences.	3–4 marks Developed evaluation - A developed judgement/conclusion is made. - Developed evaluative comments which balance some key arguments.	1	1 mark Limited knowledge of relevant key term(s) and/or factor(s) is used to answer the question.	1 mark Limited application of relevant point(s) to the business context.	1 mark Limited analysis that identifies connections between causes, impacts and/or consequences.	1–2 marks Limited evaluation - A judgement/conclusion is made with limited supporting comment/evidence. - An attempt is made to balance the arguments.	0	0 marks No creditable response.	0 marks No creditable response.	0 marks No creditable response.	0 marks No creditable response.
Level	AO1 Knowledge and understanding 2 marks	AO2 Application 2 marks	AO3 Analysis 2 marks	AO4 Evaluation 6 marks																									
3				5–6 marks Developed evaluation in context - A developed judgement/conclusion is made in the business context. - Developed evaluative comments which balance some key arguments in the business context.																									
2	2 marks Developed knowledge of relevant key term(s) and/or factor(s) is used to answer the question.	2 marks Developed application of relevant point(s) to the business context.	2 marks Developed analysis that identifies connections between causes, impacts and/or consequences.	3–4 marks Developed evaluation - A developed judgement/conclusion is made. - Developed evaluative comments which balance some key arguments.																									
1	1 mark Limited knowledge of relevant key term(s) and/or factor(s) is used to answer the question.	1 mark Limited application of relevant point(s) to the business context.	1 mark Limited analysis that identifies connections between causes, impacts and/or consequences.	1–2 marks Limited evaluation - A judgement/conclusion is made with limited supporting comment/evidence. - An attempt is made to balance the arguments.																									
0	0 marks No creditable response.	0 marks No creditable response.	0 marks No creditable response.	0 marks No creditable response.																									

3(c)	Responses may include: AO1 Knowledge and understanding <i>Limited knowledge</i> K will be demonstrated through knowledge of one factor in investment decision / knowledge of impacts of process innovation. <i>Developed knowledge</i> K + K + will be demonstrated through knowledge of two factors in the investment decision / impacts of process innovation. Knowledge of process innovation and its impacts Definition of process innovation: the move to new methods of production, in this case computer-controlled automation. Less labour required. Knowledge of factors in decision - Investment cost. - Availability of finance. - Impact on employees. - ARR and Payback results. - Technical economies of scale possible. - Reduction in average cost of production. - Impact on quality. AO2 Application <i>Limited application</i> APP applies knowledge to PPP once. <i>Developed application</i> APP + APP applies knowledge to PPP twice. - Payback of 3 years – within 4 years of estimated life. - Return of \$800 000 over 4 year period. - ARR of 21.05% - Cost of machine \$1 900 000 - NCL are \$6 million and gearing is 45%, total CE is therefore \$13.3 million - Extra borrowing of \$1.9 m would make gearing $7.9 / 15.2 = 51.97\%$ - Pies have a shelf-life, therefore over-stocking inadvisable
------	--

1	AO2 Analysis <i>Limited analysis</i> AN – candidate shows one link in the chain of analysis. <i>Developed analysis</i> L2AN – candidate shows two or more links in the chain of analysis. Chains of reasoning highlighting likely impacts of delegation: - Delegation will give employees experience of taking responsibility and therefore prepare them for promotion AN resulting in more effective senior managers in the future L2AN - Employees need to be equipped with the skills necessary for taking authority and therefore KTJ must invest in training AN thus increasing costs and potentially reducing profit L2AN - Delegation free up senior management time for strategic growth decisions resulting in more effective management of the long term growth of the business AN - There is a risk of inconsistent decision-making across markets affecting the brand image of KTJ and thus resulting in a loss of revenue AN Accept all valid responses.
---	--

2

Analyse two impacts on KTJ of its commitment towards corporate social responsibility (CSR).

Level	AO1 Knowledge and understanding 2 marks	AO2 Application 2 marks	AO3 Analysis 4 marks
2			3–4 marks Developed analysis - Developed analysis that identifies connections between causes, impacts and/or consequences of two points. - Developed analysis that identifies connections between causes, impacts and/or consequences of one point.
1	1–2 marks - Knowledge of two relevant points is used to answer the question. - Knowledge of one relevant point is used to answer the question.	1–2 marks - Application of two relevant points to a business context. - Application of one relevant point to a business context.	1–2 marks Limited analysis - Limited analysis that identifies connections between causes, impacts and/or consequences of two points. - Limited analysis that identifies connections between causes, impacts and/or consequences of one point.
0	0 marks No creditable response.	0 marks No creditable response.	0 marks No creditable response.

- If more than two impacts are identified reward the best two impacts.
- L2AN (3 marks) is possible for just one point made.
- All annotation (**K** **APP** **AN** **L2**) should be in the left margin.

2	Responses may include AO1 Knowledge and understanding Definition of CSR (max K 1 mark) - When businesses consider the interests of society by taking responsibility for the impact of their decisions and activities on stakeholders. Benefits of CSR (max K 2 marks) - Can enhance brand image. - Increased sales. - Competitive advantage. - Greater control over prices – make demand more price inelastic. Limitations of CSR (max K 2 marks) - Cost. - Impact on cash flow. AO2 Application <i>Limited application</i> APP applies knowledge to KTJ once. <i>Developed application</i> APP APP applies knowledge to KTJ twice. Max one APP for application for the first method and max one APP for application for the second method. Application is making use of relevant case information not just repeating it. - Research into plastic bottles to reduce environmental impact of packaging. - Using seasonal fruits in juices with no added sugar. - Purchasing fruit from local farm cooperatives. - Need to audit the farming methods of suppliers. 'Soft' approach to managing human resources. - KTJ markets juices as premium products. - Seasonal local fruit reinforces KTJ's sustainability strategy. - Linking to mission statement
---	---

2	AO3 Analysis <i>Limited analysis</i> AN – candidate shows one link in the chain of analysis. <i>Developed analysis</i> L2AN – candidate shows two or more links in the chain of analysis. - Effective CSR can enhance the branding of KTJ resulting in more loyal customers AN and therefore increase profit L2AN - Having to change packaging of bottles will increase costs making juices more expensive AN reducing competitiveness against other rival brands leading to a reduction in sales L2AN - Purchasing fruit from local farm cooperatives may increase costs making juices more expensive AN which will decrease profits L2AN - KTJ will need to spend more money on auditing its activities which will increase cost AN - Commitment to sustainability can reduce price elasticity of demand and therefore enable KTJ to increase prices AN and therefore increase profit L2AN Accept all valid responses.
---	--

3(a)

Using the data in Table 1.2, calculate the payback of the country C location.

Responses may include

Payback is in the fifth year (1)

Year	Net cashflow (\$m)	Cumulative Cashflow
0	(10)	(10)
1	0.5	(9.5)
2	1.5	(8)
3	3	(5)
4	4	(1)
5	4	3

Payback is 4 years 3 months OR 4.25 years (2) Units required for full marks (Years/months)

Common error

5 years 3 months (1 mark if with evidence of appropriate working e.g. attempt at cumulative cashflow)

3(b)

Using the data in Table 1.3, calculate the accounting rate of return (ARR) of the country D location.

Responses may include

ARR = Average profit / average investment × 100 (1)

= 2.8 / 12 × 100 = 23.3% (2)

Answer of 23.3 or \$23.3 (1 mark only)

Using alternative ARR equation: 2.8 / 20 × 100 = 14% (1)

3(c)

Evaluate which location KTJ should choose for its new factory.

Level	AO1 Knowledge and understanding 2 marks	AO2 Application 2 marks	AO3 Analysis 2 marks	AO4 Evaluation 6 marks
3				5–6 marks Developed evaluation in context - A developed judgement/conclusion is made in the business context. - Developed evaluative comments which balance some key arguments in the business context.
2	2 marks Developed knowledge of relevant key term(s) and/or factor(s) is used to answer the question.	2 marks Developed application of relevant point(s) to the business context.	2 marks Developed analysis that identifies connections between causes, impacts and/or consequences.	3–4 marks Developed evaluation - A developed judgement/conclusion is made. - Developed evaluative comments which balance some key arguments.
1	1 mark Limited knowledge of relevant key term(s) and/or factor(s) is used to answer the question.	1 mark Limited application of relevant point(s) to the business context.	1 mark Limited analysis that identifies connections between causes, impacts and/or consequences.	1–2 marks Limited evaluation - A judgement/conclusion is made with limited supporting comment/evidence. - An attempt is made to balance the arguments.
0	0 marks No creditable response.	0 marks No creditable response.	0 marks No creditable response.	0 marks No creditable response.

3(c)	Responses may include: AO1 Knowledge and understanding Definition of payback / ARR / NPV (max 1 mark for definitions of any or all of these terms) Factors in the decision - Shorter payback. - Higher ARR. - Capital cost. - Revenue expenditure required. - Quality of infrastructure. - Access to labour and utilities. - Political/legal environment. - Quantitative and qualitative factors. AO2 Application <i>Limited application</i> [APP] applies knowledge to KTJ once. <i>Developed application</i> [APP] [APP] applies knowledge to KTJ twice. Application is making use of relevant case information not just repeating it. Using data from Tables 1.1, 1.2 and 1.3 - Country D location is double the capital cost - Country C has quicker payback by 9 months - Country C has higher ARR by 1.7% points - Country C may have lower wages - Easier to export from Country D - Bigger potential market in Country D - Competition between farmers in country C - Economies of scale in country D farming of fruit - Mission statement regarding sustainability and ethical relationships with farmers.
3(c)	AO3 Analysis <i>Limited analysis</i> [AN] – candidate shows one link in the chain of analysis. <i>Developed analysis</i> [L2AN] – candidate shows two or more links in the chain of analysis or balance of argument. - Country D is a middle-income country and therefore households will have a higher income [AN] this will result in higher sales of juices [L2AN] - KTJ juices are a premium product so will be relatively expensive [AN] so juices may be less affordable in country C - leading to lower sales [L2AN] - Seaport in country D will facilitate exports of KTJ's juice resulting in higher sales [AN] and may therefore increase profit [L2AN] - Reliable infrastructure in D could reduce delays and protect brand image resulting in higher sales [AN] - Lower fixed costs in C could improve cash flow reducing risk of liquidity problems for K [AN] - Economies of scale in D may reduce per-unit costs and therefore increase profit [AN] AO4 Evaluation <i>Limited evaluation</i> [EVAL] – limited supported judgement and/or a weak attempt at evaluative comment. <i>Developed evaluation</i> [L2EVAL] – supported judgement and/or reasonable evaluative comment. <i>Developed evaluation in context</i> [L3EVAL] – supported judgement in context and/or reasonable evaluative comment in context. - Supported judgement as to whether country C or D is better. - Factors that decision might depend on: - Ability of KTJ to raise finance for more expensive option. - Willingness to take risk – electricity supply in country C and additional capital cost in D - Fit with KTJ's CSR – small farms rather than large scale fruit production - Importance of profit. C is marginally more profitable than D. - Depends on KTJ's tolerance for operational risk versus willingness to commit higher capital expenditure - Country D offers greater stability and scalability but requires larger upfront investment - Country C better supports CSR positioning but may compromise operational reliability - A phased investment strategy could balance initial risk with future growth potential - Decision may be influenced by external factors such as currency movements, access to finance and market growth trends - Questioning whether Gudaf has the necessary experience / skill to conduct this investment appraisal. Accept all valid responses.