

## **Business management** Higher level Paper 2

22 October 2024

Zone A morning | Zone B morning | Zone C morning

Ca	andi	date	sessi	on n	umbe	r	

1 hour 45 minutes

## Instructions to candidates

- Write your session number in the boxes above.
- Do not open this examination paper until instructed to do so.
- A clean copy of the business management formulae sheet is required for this examination paper.
- Section A: answer all questions.
- · Section B: answer one question.
- Answers must be written within the answer boxes provided.
- · A calculator is required for this examination paper.
- The maximum mark for this examination paper is [50 marks].

#### Section A

Answer all questions in this section. Answers must be written within the answer boxes provided.

### James and Juan Fencing Ltd. (JJF)

James Mortim is the main shareholder of *James and Juan Fencing Ltd. (JJF*), a privately held company that rents out temporary fencing. Businesses rent fencing for construction sites, demolition sites, outdoor events, and high-security events.

Since 2023, James has had financial efficiency issues, leading to increased debt. *JJF* offers a debtor period of 90 days. *JJF* aims to pay its own debts within 60 days.

Table 1 shows selected financial data from JJF's end-of-year (final) accounts.

Table 1: Selected financial data from JJP's end-of-year (final) accounts as at 30 September 2024, unless specified (all figures in \$000s)

Cost of sales (year to 30 September 2024)	2000
Trade creditors	х
Debtors	800
Non-current liabilities	1000
Sales revenue (year to 30 September 2024)	2500
Stock	850

James is keen to improve JJF's financial efficiency. In 2025, JJF plans to offer customers a discount for early payment of debt and operate JJF on stock levels at 20 % lower than 2024.

(a) State two	features of a privately held company.	
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estion 1 c	ontinued)
(b) (i)	Using the data in <b>Table 1</b> , calculate the debtor days ratio (number of days) for <i>JJF</i> (no working required).
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	·····
(ii)	JJF's capital employed at year end was \$2 million. Using the data in Table 1, calculate the gearing ratio for JJF (no working required).
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(ii)	calculate the gearing ratio for JJF (no working required).

(This question continues on page 5)

## (Question 1 continued)

D. S.	Table 1, calculate the stock turnover (number of days) ratio for JJF (show all your working).
	***************************************
	Bank loan
	plain the impact that <b>one</b> of James's planned changes for 2025 could have on an ciency ratio.
(c) Expension	plain the impact that <b>one</b> of James's planned changes for 2025 could have on an ciency ratio.
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#### 2. Daniel Moon

Daniel Moon works in a garden centre. He wants to open a garden (yard) design business as a sole trader in January 2025. He surveyed garden centre customers and learned that demand exists for garden designers. Daniel has obtained a \$3000 bank loan for his new business and will also inject \$2000 of his personal funds into the business.

Daniel has prepared forecasted figures (**Table 2**) and a cash-revenue forecast (**Table 3**) for his new business for the first four months of operation in 2025.

Table 2: Daniel's forecasted figures for his new business for the first four months of operation in 2025 (all figures in \$)

Personal funds	2000
Bank loan	3000
Van purchase in January	2000
Tools and equipment purchase in January	4000
Advertising every two months, starting in February	125
Cost of sales per month	400
Daniel's monthly salary, starting in March	800
Loan repayments per month	200

Table 3: Daniel's cash-revenue forecast for his new business for the first four months of operation in 2025. These figures include some orders secured by Daniel

All the Control of th	January	February	March	April
Forecasted cash revenue	\$2000	\$2100	\$2000	\$2500

(a)	Stat	e two	teatures	of a sole tra	ader.	Liber.		
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#### (Question 2 continued)

(b) Using the information in Table 2 and Table 3, complete the following cash-flow forecast, all figures in \$, for Daniel's new garden design business for the first four months of operation in 2025.

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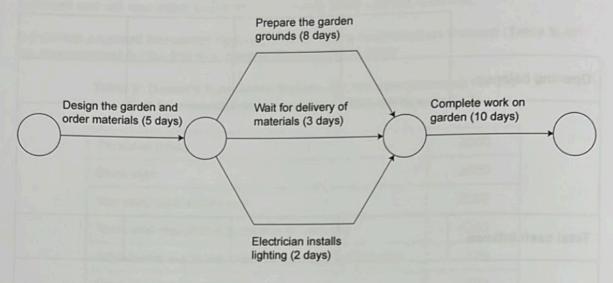
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[1]

## (Question 2 continued)

Daniel also created a critical path diagram for a garden design project (Figure 1).

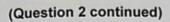
Figure 1: Daniel's critical path diagram for a garden design project



- (c) Using Figure 1:
  - determine the critical path and write the activities of the critical path in the boxes below;

(ii) calculate the minimum amount of time required for Daniel to finish a garden design project (no working required).

.....



(d)	Explain <b>one</b> advantage for Daniel of using critical path analysis for a garden design project.	[2]

#### 3. Asia Coffee (AC)

Asia Coffee (AC) is a cooperative that supplies coffee in Cambodia. AC has over 500 members, and 90% of the production of the coffee it supplies is classed as fair trade. Fair trade coffee usually sells at a premium price.

**Table 4** shows *AC*'s budget, including production costs and other selected costs, for the year ended August 2023.

Table 4: Budget for AC for the year ended August 2023 (all figures in \$000s)

[A] = Adverse variance

[F] = Favourable variance

Financial variable	Budgeted figure	Actual figure	Variance
Sales revenue	4000	3750	250 [A]
Production costs	1200	1400	W
Marketing costs	100	X	20 [F]
Management costs	Y	100	30 [A]
Profit for period	2000	1650	Z

Since 2023, AC's board of directors have become concerned about declining levels of production. Selling prices have also fallen. Coffee growers and cooperative members are worried.

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### (Question 3 continued)

(b) Us	ing the data in Table 4:
(i)	calculate, for AC, the production costs variance, <b>W</b> , <b>and</b> state if it is adverse or favourable (no working required);
(ii)	calculate, for AC, the actual marketing costs, X (no working required);
(iii)	calculate, for AC, the budgeted management costs, Y (no working required);
• • • • • • • •	
(iv)	calculate, for AC, the profit for period variance, <b>Z</b> , <b>and</b> state if it is adverse or favourable (no working required).
tota	coffee market in Cambodia has a total value of \$32 million per year. Calculate the I market share for AC's coffee in Cambodia based on actual sales revenue in le 4 (show all your working).

(This question continues on page 13)

## (Question 3 continued)

(d)	Table 4.	[2
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# Section B

Answer one question from this section. Answers must be written within the answer boxes provided.

## Chaltex PLC (CLX)

Eunju Kwak is the recently appointed chief executive officer (CEO) of Chaltex PLC (CLX), a publicly hold a publicly held company. CLX specializes in recruitment and training services for large organizations throughout Southeast Asia.

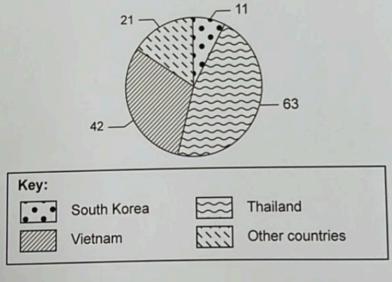
Eunju has an autocratic leadership style. She sees herself as being in charge and as the only person capable of making important decisions. She plans for everything that might happen at CLX.

	- " disadvantage	of an autocratic leadership ory
(a)	Describe one disadvartage	of an autocratic leadership style.

CLX has grown significantly since the COVID-19 pandemic. It now has several large contracts to provide training courses to government departments in South Korea, Thailand, and Vietnam, where it hopes to further develop its services. The training CLX provides is customized to the needs of each organization. Eunju seeks feedback from training course participants through surveys that are completed at each training event.

Figure 2 and Table 5 provide extracts from the latest survey results (March 2024-September 2024).

Figure 2: Number of organizations participating in the surveys



# (Question 4 continued)

Table 5: Survey questions (average marks out of 10)

	South Korea	Thailand	Vietnam	Other countries
Quality of the presentation	7.7	8.9	8.4	7.3
Quality of the course materials	7.2	7.9	8.1	7.1
Usefulness of the training to the job role	7.8	8.8	8.2	7.6
Trainer enthusiasm	6.8	9.5	8.7	8.6

(b) Using I	igure 2 and Table 5	, comment on the surve	cy carried that		
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	u - I- N- ab	niques of primary mark	et research, other	than surveys, that	
				a provided by CLX.	
(c) Expla	in two methods/tech	information to help her	assess the training	provided by	
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(Question	4	continued)	١

At a recent board meeting, concerns were raised about CLX's falling sales in South Korea. In 2023, CLX had an adverse sales variance in South Korea. Sales were below the detailed sales foreactive the content of the c sales forecasting that Eunju had carried out for the whole business. A further fall in sales in South Korea would severely impact any further growth.

(d) Ex	plain one advantage of sales forecasting for CLX.	
CLX sho the need internation	deals with serious issues as they arise. Eunju has several concerns that she feels all deals with serious issues as they arise. Eunju has several concerns that she feels all deals with serious issues as they arise. Eunju has several concerns that she feels all deals with serious issues as they arise. Eunju has several concerns that she feels all deals with serious include changes in technology that may reduce for CLX to provide training in its current format, threats arising from CLX working shally, and political unrest in the countries in which CLX operates.	
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## De Soto Paint Company (DSP)

De Soto Paint Company (DSP) manufactures paint for commercial and residential use. The founder, who once owned 100% of the share capital, had a paternalistic leadership style. DSP's management ever since.

DSP's founder believed in corporate social responsibility (CSR) long before it was popular. DSP is now a publicly held company and has six factories in the United States (US) and Mexico. DSP matches the location of production to regional demand for different paint colours. Paints are sold through franchises across the US and Mexico.

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## (Question 5 continued)

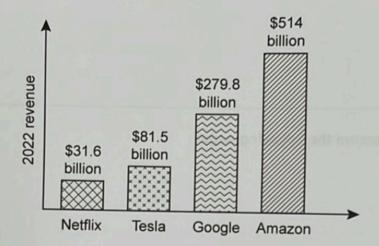
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Many factors, including culture and weather, influence where different paint colours sell. In 2023, DSP required all franchisees to connect their computer systems to that of DSP. This process was expensive for DSP, as franchise contracts did not specify software requirements. DSP paid for the cost of integrating systems.

Once the software integration was completed, DSP collected big data based on every tin of paint sold - colour, size, location, customer, even the time of day it was sold. DSP quickly became more competitive and more efficient and switched from just-in-case (JIC) production to just-in-time (JIT) production. Sales for DSP and the franchisees increased.

DSP's chief financial officer (CFO) had read that many companies, including some famous ones, relied on big data to boost sales (Figure 3). He wanted DSP to do the same.

Figure 3: Four companies making almost \$907 billion using big data



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# (Question 5 continued)

The chief operating officer (COO) immediately saw the benefits of big data. He set up a cost centre and hired a data mining expert to run it. The data mining cost centre's purpose was to help *DSP* extract even more information from the operations and marketing of both the company and the franchisees. The data mining expert also suggested that this cost centre become a profit centre. The profit centre would sell data to companies in related industries, such as construction services and home decorating services.

Because *DSP* had a profit-related pay scheme for all employees, the idea of having a big data profit centre appealed to many employees. The data mining cost centre was converted into a profit centre.

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#### (Question 5 continued)

The data mining expert also had an idea for using management information systems to help *DSP* improve its operations: start monitoring employee activity in the six factories. If employee identification badges were fitted with a microchip, *DSP* could monitor each employee's movements. Employees not working hard enough or taking too many breaks could be punished and, if necessary, dismissed. According to the data mining expert, operations efficiency would increase significantly.

*DSP* adopted the plan, but many employees accused management of digital Taylorism, and labour turnover increased. Prior to the adoption of the plan, *DSP*'s labour turnover had been low compared to other paint manufacturers.

	(d)	Using information in the stimulus and <b>Figure 3</b> , discuss the impact on <i>DSP</i> of its	
		Using information in the stimulus and <b>Figure 3</b> , discuss the impact of the use of data mining to inform decision making <b>and</b> its use of big data to monitor and manage employees.	[10]
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#### References:

Figure 3. Leo, 2023. 4 Companies Making Almost \$907 Billion Using Big Data. [blog] Consult Port, April 29. Available at: https://consultport.com/for-companies/4-companies-making-almost-907-billion-using-big-data/ [Accessed 19 February 2024]. SOURCE ADAPTED.